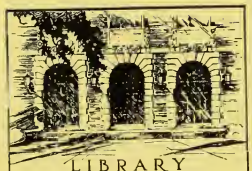
551.05
UNKE
1937-39

Q.



LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS

551.05
UNKE
1937-39

NOTICE: Return or renew all Library Materials! The *Minimum* Fee for each Lost Book is $50.00.

The person charging this material is responsible for its return to the library from which it was withdrawn on or before the **Latest Date** stamped below.

Theft, mutilation, and underlining of books are reasons for disciplinary action and may result in dismissal from the University.
To renew call Telephone Center, 333-8400

UNIVERSITY OF ILLINOIS LIBRARY AT URBANA-CHAMPAIGN

OCT 1 6 1989
OCT 0 6 1989
APR 1 6 1992
APR 2 3 1992

L161—O-1096

.05
KE
Nat. Hist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., JANUARY, 1937 No. 1

GENERAL SUMMARY.

The month was warm and excessively wet. In the western part of the State, temperatures somewhat below normal occurred in a short period. Toward the east and southeast the temperature level rose and the departures above normal increased. In the eastern districts there were very few days on which the average temperature did not exceed the normal. As a result grains and grass made considerable growth, and showed decided improvement. Rye pastures could have been used if the continued saturation of the soil had not prevented turning of animals on the fields.

The precipitation exceeded by a wide margin the record for any month since State averages were established. The most widespread flooding of bottom lands ever known, as well as large areas of standing water on flat uplands, caused extensive damage to grains, meadows and pastures by drowning. Sheet ice in the western and central counties in the second week added to the damage by its smothering effects. The frequent excessive rains, falling on thawing or supersaturated soil, brought about such erosion of grain fields, plowed and fallow lands, as has never been approached during a period of the same length in the climatic history of the State. Soil washed off the uplands was to a considerable extent deposited on the lowlands, where crops were smothered under the thick deposits of mud. After the heavy rains set in on the 6th, outdoor work became impossible. Even the routine duties on the farm were carried on with difficulty during the continuous downpours of rain.

In the first decade the warmth and additional moisture were welcome to handlers of tobacco, but with the persistent rains that followed the weed became too damp and soft to be placed in bulk. The impassable condition of dirt roads, and the cutting off of traffic by high water over other roads, greatly reduced the movements of tobacco to market. Other commercial movements by highway were affected in the same manner.

TEMPERATURE.

Temperature averages ranged from about 4° above normal in the extreme west to 10° above in the extreme east. The daily excess was 10° to 25° in the periods 5-8th, 13-14th, 17th-21st, and 28th-31st. One moderate cold wave advanced as far as the center of the State on the 22d and 23d, with deficiencies of 10° to 15°. The highest was 76° on the 8th at Pippapass, and the lowest 13° on the 23d at Louisville.

PRECIPITATION.

Precipitation averaged 15.77 inches, which is more than 4.00 inches above the highest monthly record previously known, that of January, 1913. The heaviest precipitation occurred in the district from the lower Kentucky River Valley south to the Tennessee border and west to the Purchase. In this area monthly amounts ranged from 17 to 23 inches in the lower valleys of the Green and Kentucky rivers, also at some stations in the south-central counties, amounts exceeded 20 inches. In the eastern half of the State monthly totals decreased quite regularly from 16 inches in the valleys of the lower Licking middle Kentucky, and upper Cumberland to 10 inches in the Big Sandy Valley and 8 inches near the Virginia border.

Heavy rains occurred generally on the 2d, 9-10th, 14-15th, 17-18th, and 20-25th. Daily amounts in the latter period ranged from 2.50 to 6.00 inches at many stations. The days with the heaviest rainfall were: 10th, 15th, 18th, 21st, 22d, 24th and 25th. Moderate to heavy rain fell on the 7th, and light to moderate rain on the 29th and 31st. Measurable precipitation was reported on every day. Snowfall ranged from a trace to 6.0 inches and was confined to the northern and western counties. Days with thunderstorms were: 2, 13, 14, 17, 20, 21, 24, 30. Considerable sleet occurred in northern districts on the 22-23d.

Rivers.—The greatest flood in the history of the Ohio Valley crested from Ashland to Evansville in the period 26th-31st. More than half of Louisville, all of West Point, and 95 per cent of Paducah were flooded. Mass evacuations of these areas and of other river towns became necessary. The Ohio and Kentucky rivers rose to stages never before known. Frankfort was more than half flooded. Lawrenceburg, Indiana, was almost entirely flooded, while Jeffersonville, Indiana was submerged to the extent of 90 per cent. One-half or more of New Albany was flooded. At Louisville light and water service failed. The business district of the city was reduced to an island, cut off from all other sections by water. The overflowing of highways and railroads completely prevented traffic with Louisville and other flooded areas. Communication with the island center of Louisville during the higher phase of the flood was by pontoon bridge across the Beargrass depression. Losses from the flood, including interruption to business, were so enormous and varied as to be impossible to estimate with accuracy. It is believed that they will reach $75,000,000 at Louisville. Because of the rapidity of the rise in the higher levels of the flood, property losses were extremely large. In the case of the average householder in one-story dwellings, they usually amounted to almost everything except the clothing worn at the time of exit. Hundreds of automobiles were caught and submerged by the rising water. Some of the crests reached by the rivers of Kentucky are as follows: the Ohio, at Cincinnati, 80.0 feet, on the 26th; at Louisville, 57.1 feet, upper gage, on the 27th; at Evansville, 53.7 feet on the 31st. It will be noted that these crests at Cincinnati and Louisville are nine to ten feet above the highest previously known flood, that of February, 1884. In the Kentucky River, the crest at High Bridge was 42.2 feet on the 23d, and at Frankfort 47.2 feet on the 25th, the highest ever recorded. In the Green and Barren Rivers, the crest at Bowling Green was 40.7 feet on the 23d; at Brownsville 64.7 feet on the 24th; at Woodbury, 59.0 feet on the 25th; and at Rumsey, 54.4 feet on the 31st. Some preliminary estimates of losses are: Jeffersonville, Indiana, $9,000,000; New Albany, Indiana, $16,000,000; Paducah, Kentucky, $18,000,000; State of Kentucky as a whole $250,000,000.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.14	30.53	10	29.64	17	11.0	30	n.	21	90	84	84	28
Cincinnati ..... Ohio	30.20	30.62	27	29.59	2	8.7	24	w.	21	88	77	80	31
Evansville ..... Ind.	30.16	30.54	10	29.64	17	10.4	32	sw.	14	83	74	80	20
Louisville ..... Ky.	30.19	30.58	27	29.64	2	11.2	30	s.	14	86	79	77	24

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation.	Average snowfall	Number of days. Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	38.0	65	13	3.52	....	..	..	..	..
1890	44.0	77	10	6.43	....	..	..	..	..
1891	37.0	68	14	5.40	....	..	..	..	..
1892	29.0	65	− 6	2.72	....	..	..	..	..
1893	26.0	67	−22	2.08	....	..	..	..	..
1894	38.0	78	−12	2.91	....	..	..	..	..
1895	30.0	78	−16	5.71	....	11	8	8	15
1896	36.1	74	− 3	1.25	....	6	9	7	15
1897	32.0	75	−16	3.25	4.2	8	11	8	12
1898	40.4	72	6	8.76	1.4	12	8	8	15
1899	34.4	68	−18	6.23	8.5	11	9	8	14
1900	37.2	77	− 8	2.80	0.9	8	12	8	11
1901	36.7	75	4	1.85	0.8	7	12	7	12
1902	33.7	70	5	5.14	2.3	7	14	5	12
1903	34.8	82	− 9	2.50	2.8	9	11	6	14
1904	32.3	70	− 9	3.17	2.5	10	13	5	13
1905	27.5	70	−15	2.83	12.8	11	10	5	16
1906	39.7	80	− 9	3.48	3.1	8	11	6	14
1907	43.2	83	−11	8.02	4.8	14	7	6	18
1908	35.0	62	7	2.20	1.0	8	13	5	13
1909	33.3	77	− 8	3.47	5.7	9	5	6	20
1910	33.8	70	−20	4.41	11.0	10	9	5	17
1911	39.7	73	−16	2.88	4.4	11	7	4	20
1912	25.9	61	−20	3.09	11.7	8	13	4	14
1913	42.5	76	13	11.41	1.4	14	8	6	17
1914	39.4	79	5	2.31	1.0	6	9	7	15
1915	33.0	65	0	5.03	7.0	13	8	7	16
1916	41.2	78	− 5	7.27	3.7	14	9	6	16
1917	36.7	74	−17	6.38	12.0	12	8	8	15
1918	20.6	62	−20	5.09	23.3	14	9	7	15
1919	37.9	68	− 1	3.62	1.6	7	16	6	9
1920	33.4	72	− 6	6.75	0.7	10	10	6	15
1921	39.7	71	12	3.06	4.0	10	10	7	14
1922	34.6	67	1	2.25	1.1	8	12	8	12
1923	41.0	68	11	6.11	T.	12	8	6	17
1924	31.3	66	− 8	5.05	1.2	9	15	5	11
1925	35.8	66	− 9	2.60	4.1	10	12	6	13
1926	34.4	69	−11	4.01	7.1	10	12	5	14
1927	35.8	76	− 3	6.33	2.2	12	19	6	16
1928	35.0	76	− 8	2.47	1.9	8	14	7	10
1929	34.8	76	− 6	4.54	1.8	13	9	7	15
1930	34.6	75	−20	4.85	3.8	13	11	5	15
1931	37.7	72	− 9	1.23	2.3	6	13	5	13
1932	44.9	80	14	8.13	0.2	14	11	5	15
1933	43.9	74	10	5.18	0.1	12	12	8	11
1934	40.4	72	− 3	1.85	0.2	8	11	6	14
1935	37.3	71	− 2	5.28	3.4	9	11	6	14
1936	29.4	68	−25	2.99	6.2	11	10	7	14
1937	43.6	76	13	15.77	2.0	17	4	4	23
Period	36.0	83	−25	4.57	4.1	10	11	6	14

48 year averages.

Weather Survey
Kentucky

Climatological Data for January, 1937.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall	....	....	....	....	....	....	....	....	....	16.53	.....	3 91	.....	9	....	....	....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	33	43.0	+ 5.9	69	14	18	16	30	20.46	+15.51	4.38	.....	20	1	10	20	e.	W. A. Taylor.
Earlington	Hopkins	420	47	42.8	+ 6.6	72	14	18	23	32	22.97	+17.93	4.93	4.0	18	4	3	24	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	17.60	.....	3.23	6.0	16	....	....	....	.....	Lockmaster.
Greenville	Muhlenburg	519	20	[a]41.3	+ 4.3	71[a]	15	17[a]	23	35[a]	19.22	+14.65	4.02	2.0	17	5	3	23	n.	C. R. Lovell.
Henderson	Henderson	382	23	39.8	.....	72	9	16	23	43	21.00	+17.35	4.15	4.0	17	2	8	21	n.	Frank Street.
Hopkinsville	Christian	524	41	43.6	+ 5.7	74	14	20	23	43	21.86	+16.64	4.14	1.0	19	4	1	26	n.	W. E. Graves.
Lovelaceville	Ballard	....	8	39.8	.....	67	14	13	23	32	17.60	.....	5.21	.....	10	7	5	19	s.	Blaine Malone.
Mayfield	Graves	364	28	40.9	+ 3.6	72	14	21	25	37	17.05	+11.89	4.55	.....	18	5	7	19	s.	Mrs. Joe Payne.
Murray	Calloway	412	11	42.1	+ 3.9	74	14	18	23	36	19.54	+14.01	5.88	T.	16	7	4	20	e	Harry B. Arnold
Owensboro	Daviess	479	40	39.4	+ 4.2	66	8	15	23	30	17.59	+13.32	4.04	.....	18	4	3	24	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4	....	....	....	....	....	....	....	16.14	+10.82	3.15	.....	19	....	....	....	.....	Lockmaster.
Paducah **	McCracken	316	20	....	....	....	....	....	....	....	17.53	+12.56	3.72	0	25	7	2	22	.....	Joe Lagore.
Princeton	Caldwell	529	30	41.8	+ 5.6	72	14	17	23	35	19.58	+14.61	5.10	3.0	11	4	4	23	n.	Dr. W. L. Cash.
Ramsey, Lock 2 ‡	McLean	384	20	....	....	....	....	....	....	....	18.42	+13.78	4.52	.....	28	....	....	....	.....	Lockmaster.
Russellville	Logan	590	26	41.6	+ 5.5	71	14	20	4	39	18 57	+13.33	3 60	.....	11	3	2	26	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	17.39	+12.37	3.36	.....	5	T.	....	....	. . .	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	19.37	+13.69	3.68	1.5	19	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	36	39.6	+ 6.1	65	8	18	4	27	20.48	+16.31	6.32	4.5	13	5	2	24	ne.	C. E. Jarret.
Bowling Green	Warren	500	48	45.8	+ 8.3	69	14	23	16	33	20.70	+15.48	3.75	.....	19	4	4	23	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 62	Edmonson	410	20	....	....	....	....	....	....	....	19.07	+13.53	3.50	.....	21	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	15.12	+10.31	2.63	.....	21	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	38	....	....	....	....	....	....	....	16.16	+12.38	2.93	.....	16	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	11	....	....	....	....	....	....	....	14.60	+11.32	2.26	.....	19	....	....	....	.....	Lockmaster.
Danville	Boyle	540	4	44.5	.....	73	8	20	4	40	16.06	+12.38	1.70	.....	18	2	3	26	sw.	R. P. Goldiron.
Dix Dam, Rungin	Mercer	770	9	45.0	+ 7.4	72	8	24	3	25	15.89	+11.63	3.10	0	19	4	4	23	s.	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	14.82	.....	3.04	0	15	....	....	....	.....	Lockmaster.
Eubank	Pulaski	1177	43	45.3	+ 9.5	71	8	26	5[t]	34	14.62	+10.09	2.30	.....	15	1	6	24	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	42.6	+ 6.3	72	8	21	4	32	16.77	+12.53	3.21	.....	21	3	3	25	.....	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	18.36	+14.31	3.57	.....	20	....	....	....	.....	Lockmaster.
Glasgow	Barren	780	11	45.4	+ 5.3	70	8	19	4	37	20.16	.....	4.20	.....	16	13	0	18	n.	R. L. Beatty.
Grant, Dam 38	Boone	789	12	....	....	....	....	....	....	....	15.57	+12.48	2.79	5.0	17	....	....	....	.....	Lockmaster.
Greensburg	Green	581	44	43.1	+ 9.6	72	8	19	4	39	18.07	+12.81	2.01	0	20	1	1	29	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	13.78	+ 9.16	3.04	.....	19	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	39	41.5	+ 5.3	68	14	20	23	34	18.12	+13.71	3.54	T.	17	4	1	26	ne.	W. J. Figgot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	16.87	+12.56	2.46	.....	19	....	....	....	.....	Walter Billion.
Leitchfield	Grayson	635	41	42.6	+ 6.9	68	14	21	4[t]	32	21.85	+16.86	3.79	.....	29	3	4	24	s.	H. H. Willis.
Lexington	Fayette	989	53	41.7	+ 8.3	71	8	21	4	34	15 10	+10.92	2.10	3.0	20	3	6	22	.....	U. S. Weather Bureau.
LittleRickman, Lock 8	Jessamine	560	26	....	....	....	....	....	....	....	14.55	+10.14	2.00	.....	14	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	22.72	+18.70	5.30	.....	15	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	499	64	40.2	+ 5.8	67	20	18	23	31	19.17	+15.17	4.30	T.	19	3	3	25	s.	U. S. Weather Bureau.
Mammoth Cave	Edmonson	....	....	42.6	.....	69	20[t]	20	23	33	21.02	.....	2.63	0	20	3	3	25	ne.	Ivan J. Ellsworth.
St. Joan	Hardin	777	41	42.8	+ 8.5	67	14	22	4	31	22.46	+17.70	4.10	1.0	17	7	8	16	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	23	....	....	....	....	....	....	....	15 49	+10.82	2.98	.....	17	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	895	48	40.6	+ 6.7	68	8	19	23	29	20.05	+15 50	3.20	2.1	23	3	0	28	n.	Miss Ruth Batta.
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	17.59	.....	6.62	2.2	15	4	1	26	sw.	A. McLeod.
Stearns	McCreary	1400	....	49.8	.....	70	22	26	16	31	12.48	.....	2.42	0	18	2	4	25	sw.	Geo Wright
Taylorsville	Spencer	489	35	....	....	....	....	....	....	....	17.67	+12.96	7.36	.....	12	....	....	....	.....	Elizabeth J. Bourne.
Tyrone, Lock 5	Anderson	524	19	....	....	....	....	....	....	....	15.50	+11 06	2.85	3.0	21	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	34	38.8	+ 5.6	65	8[t]	20	4[t]	32	16.97	+13.11	2.60	.....	13	7	6	18	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20	....	....	....	....	....	....	....	19.21	+14.05	4.52	.....	18	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ashland	Boyd	534	18	45.1	+ 8.6	74	8	22	4	32	13.34	.....	2.17	.....	19	3	4	24	sw.	W. A. Worthington.
Barbourville	Knox	....	....	....	....	....	....	....	....	....	11.57	+ 7.51	1.94	.....	19	5	4	22	ne.	Lockmaster.
Berea	Madison	1070	32	[a]46.0	+ 8.8	71[a]	8	22[a]	4[t]	39[a]	11.26	.....	3.53	0	11	....	....	....	. . .	Mrs. Ralph Tuggle.
College Hill, Lock 11	Madison	611	27	....	....	....	....	....	....	....	14.91	+10.06	1.40	.....	19	3	2	26	se.	Luther M. Ambrose.
Cumberland	Harlan	....	....	48.8	.....	72	9	19	4	32	12.80	+ 7.32	2.02	.....	18	....	....	....	.....	Lockmaster.
Cynthiana	Harrison	684	19	....	....	....	....	....	....	....	9.65	.....	2.19	.....	13	9	14	8	s.	C. Bertrand Fields.
Falmouth	Pendleton	690	48	....	....	....	....	....	....	....	....	....	....	.....	....	....	....	....	.....	P. H. Kehoe.
Farmers	Rowan	668	29	45.4	+ 9.8	75	8[t]	20	4	40	10.30	+ 6.28	1.76	4.0	19	....	....	....	.....	J. V. Oldham.
Flemingsburg	Fleming	841	12	....	....	....	....	....	....	....	12.40	+ 8.66	2 00	.....	14	5	4	22	e.	Mrs. R. F. Stamper.
Ford, Lock 10	Clark	837	21	....	....	....	....	....	....	....	13.64	+ 9.21	1.65	.....	18	....	....	....	.....	C. A. Glascock
Greenup, Dam 30	Greenup	1117	9	....	....	....	....	....	....	....	13.98	+ 9.71	2.29	.....	17	....	....	....	.....	Lockmaster.
Hazard	Perry	869	13	....	....	....	....	....	....	....	....	....	....	.....	....	....	....	....	.....	Lockmaster.
Heidelberg, Lock 14	Lee	663	20	46.8	.....	73	8	19	4	37	9.69	+ 6.47	1.60	.....	17	....	....	....	.....	Chas. O. Ihrig.
Jackson	Breathitt	540	17	....	....	....	....	....	....	....	12.63	+ 8.37	2.00	0	18	2	4	25	sw.	Lockmaster.
Jenkins	Letcher	776	....	....	....	....	....	....	....	....	12.23	.....	2.50	.....	17	....	....	....	.....	Jas T Goff.
Livingston	Rockcastle	950	....	45.6	.....	72	8	17	4	39	8.74	+ 5.31	1.37	.....	20	....	....	....	.....	R. J Hiward.
Louisa	Lawrence	584	33	....	....	....	....	....	....	....	12.59	.....	2.20	0	17	4	3	24	.....	B. H Griffin.
Maysville	Mason	....	17	42.6	+ 8.9	72	8	20	4	31	10.08	+ 7.16	2.00	.....	16	....	....	....	.....	Lockmaster.
Middlesboro	Bell	524	40	[a]50.8	+11.4	70[a]	22	20[a]	4	30[a]	14.71	+10.61	2.55	3.0	18	3	5	23	sw.	Lockmaster.
Mount Sterling	Montgomery	1128	41	43.4	+ 9.4	71	8	19	4	38	11.94	+ 7.32	2.85	.....	20	5	16	10	.....	Matthew Woodson
Oneida	Clay	950	47	....	....	....	....	....	....	....	11.97	+ 7.10	2.25	.....	12	6	4	21	se.	W. R McKee.
Onconta, Dam 35	Campbell	497	10	....	....	....	....	....	....	....	12.06	.....	1.93	.....	15	....	....	....	.....	Joe L. Gay.
Paintsville	Johnson	567	3	....	....	....	....	....	....	....	15.39	+11.91	2.92	6.0	19	....	....	....	.....	Lockmaster.
Pikeville	Pike	636	31	42.4	.....	72	8	24	5	28	9.96	.....	1.71	.....	17	....	....	....	.....	Manuel Robinson.
Pippapass	Knott	1035	3	49.1	.....	76	8	21	4	35	8.39	+ 4.61	1.38	0	18	4	3	24	.....	U. S Weather Bureau.
Quicksand	Breathitt	732	11	46.7	+ 8.0	73	8	21	4	38	8.68	.....	1.61	0	18	5	0	26	.....	Caney Run Com. Cen.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	11.94	+ 8.03	2 46	.....	17	....	....	....	.....	R. W. Jones.
Richmond	Madison	926	46	44.2	+ 8.9	72	9	22	4	31	14.56	+ 9.98	1.90	.....	18	....	....	....	.....	Lockmaster.
Valley View, Lock 9	Madison	571	24	....	....	....	....	....	....	....	15.40	+10.99	2.25	.....	17	3	0	28	.....	J. W. Crooke.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	14.88	+10.26	2.48	.....	18	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	930	38	49.3	+10.5	74	22	21	4	35	12.66	+ 8.54	2.13	.....	20	....	....	....	.....	Lockmaster.
Willow Lock 13	Lee	646	20	....	....	....	....	....	....	....	12.05	+ 7.63	2.00	.....	21	5	7	19	.....	John W. Stephens.
State averages and extremes		....	....	43.6	+ 7.6	76	8	13	23	43	14.37	+10.62	2.00	.....	17	....	....	....	.....	Lockmaster.
		....	....	....	....	....	....	....	....	....	15 77	+11.20	7.36	2.0	17	4	4	23	n.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

[t] Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow §Lone Oak.

* Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Onconta, California, Ky. ** Precipitation by U. S. Engineers.

551.05
UNRE
1937-38

Daily Precipitation for January, 1937.

Stations	Day of month																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.			33				47		1 43	1.02					1.18		2.74				3.91	2.93			2.62							17.35
Calhoun G.		.38				.08	.08	.02	1.35	1.30	.01		.02	.88	.59		.04	1.48		.52	4.38	3.10		9 3	.66	.09			.01		T	48	29.46
Earlington G.		.23				.05	.71	T	1.53	1.42			.01	.75	.89		.85	1.53		.56	4.93	4.08	1.40	3	.25				.02		T		22.95
Fords Ferry Dam 50 O.		.32				T	.96	T.	.87	1.38	.10	T.	T.	.32	1.72		.23	1.63		.14	3.25	2.47	1.70	.70	1.41							20	17.60
Greenville G.		.25				.05	.45		.90	1.20	T.		.02		1.15		1.10	1.45		.45	4.02	3.20	1	25	2.78	.45			.20			5	18.72
Henderson O.		.52				.15	1.30	T.	2.02	.30	T.	.12	.06	4.00	.12		.57	1.57		.92	4.15	2.87		17	1.89						T.	27	21 60
Hopkinsville C.		.46				.02	.79		.63	1.09	T.	.04	.01	.09	1.07		1.91	1.81		.96	4.14	3.88		89	3.11	.65			.06		T	32	21 85
Lovelaceville M.						.90		15	2.20	.90					1.77		1.80			.97	5.21	3.40									36	17 60
Mayfield M.		.19				.09	.62	T.	1.51	.58		.15	.03	.45	.29		.83	1.57		.31	4.35	3.20		40	1.75	.16						27	17.60
Murray T.	T.	.33				T.	.58	T.	.87	.93	.10	.14	.07	1.10	.18		5.76	.36		.60	5.88	T.	1.97	1.39	1.28					T.	T	19.54
Owensboro O.		.29		T.		.10	1.00	T.	1.39	.89		T.	.10	.60	.86		.23	1.60		.32	4.04	1.50	1.42	2.10	.55			.01				29	17.59
Owensboro, Dam 46 O.		.26	T.			T.	1.15		.37	1.01	.10		.01		.27	1.46		.26	1.70	.01	.08	3.15	2.55	.33	3.22			T.	.03			22	16.14
Padueah O.		.29					.60		1.40	1.23		T.	T.	.27	.80		.18	1.50		.17	3.45	3.72	1.90	.95	.45							38	17.83
Princeton K.	.15	.15				.15	.50	.05	1.40	.88	.08	.02	.05	.90	.30		1.47	1.05	T.	.40	5.10	3.50		40	2.63						.34	.06	19.58
Ramsey, Lock No. 2 G.		.30					.72		.60	1.70	.18			.30	1.20		.28	1.78		.18	2.77	4.52	1.98	0.25	1.17			.03	T.	.01	.45	18.42
Russellville G.		.45		.03		.13			.15	1.80	.15	.14	.03	.07	1.04		.55	3.60		1.05	1.50	2.73	1.80	1.02	1.16			.25	.05		.47	18.57
Uniontown, Dam 49 O.		.22	T.	T.			.54		.94	1.19			T.	.80	3.36		.11	2.00		.25	2.18	1.98	2.15	.62	1.26						.10	17.59
Central Division																																
Addison, Dam 45 O.		.43	.01		T.		1.07		.34	1.68	.24		.01	.26	1.65		.24	1.94		.19	3.28	3.68		82	80	2.18			T.	.20		.35	19 37
Anchorage K.		.25			T		.27		1.40	.96				2.75	.05		50	1.10			5.58			6.82	.27				.16			.30	20.48
Bowling Green G.		.92			T.		.42		.05	1.77	.28	.22	T.	.05	1.22		.82	3.75		.82	2.50	2.60	2.30	.80	.75			.42	.60		.41	20.70
Brownsville, Lock No. 6 G.		.58					.52		.10	2.08	.30	.03	.04	.03	.97	.62	.45	3.50		.40	1.65	3.25	2.40	1.26	.50			.30	.25		.41	19.07
Burnside C.		2.65	.09				.66	.02		.14	.42	.17	.05	T.	1.62	T.	1.33	1.69	.17	1.50	.55	.73	1.68	.22	.78			.07	.42		.2	15.12
Carrollton (Lock No. 1) K.		.35					.48		.53	1.04	.07			.33			.23	1.44		1.60	2.22	2.73	1.08		2.20				.12			.22	16.10
Cold Spring, Dam 36 O.		.29	.13				.43	.01	.23	.75	.16				16	2.87	.01	1.72	.07	.08	2.10	2.26	.24		1.52	.58				T.		.26	14.60
Danville K.	1.25				T.	.10	.43		.44	1.65	T.	T.	.09	.07	1.23		1.58	1.70	T.	1.17	1.60	1.25		75	1.65	.75			.12			.23	16.06
Dix Dam, Burgin K.	1.03						.68		.12	1.75	.42		.05	.03	1.10		.40	3.10	.02	.54	1.12	1.76	1.62	.96	.80				.07			.32	15.89
Eadsville C.		3.04					.43			.68	.50	.18	.14		1.45		.70	2.15		.28	1.75	1.43	1.32		1.15							.52	14.82
Eubank G.		1.05					1.10			.71			.17	.15	1.60			2.10	.02	1.40	2.30	1.60	1.50		1.20				.20			.54	14.72
Frankfort K.		.63	.11			.01	.70		.24	2.60	.44		.05	.16	1.27		.33	1.41	T.	.18	3.21	2.58	1.17	1.10	.77			.01	.07	.33		.16.77
Gest, Lock No. 3 K.		.52	.11			.02	.92		.32	1.50	.29		.03	.31	2.35		.32	1.37		.30	1.50	3.57	1.80	1.40	1.55				.20			.28	18.26
Glasgow G.		1.57					.28		.60	1.22	.22	.08		.12			4.20	1.80		2.00	1.55	2.00	1.12	1.80				1.00				.60	20.16
Grant, Dam 39 O.		.24	.16				.29		.24	.94		T.		.84	2.17		.12	1.61	.03	.18	2.21	2.50	.73	.37	2.79					T.		.15	15.57
Greensburg G.		1.25	T.			.10	.40		.31	1.50	.06	.12	.09	.05	1.06		1.96	2.01		1.61	1.83	1.68	.60	1.54	.66			.27			.57	18.07
High Bridge, Lock No. 7 K.		.93	.03				.61		.03	1.81	.31		.02	.07	1.23		.32	3.04	.02	.41	1.01	1.78	.92	.61	.85				.05			.33	13.78
Irvington O.		.34			T.	T.	1.26		.90	1.55			.05	.21	1.15		.51	1.32		.62	3.54	2.93	1.00	1.63	.43			.22		T.	.44	18.12
Lancaster K.		1.30					.64	.63	1.50	.88	.04		.03	1.60		.40	2.46	.02	.85	1.05	1.65	1.78	1.77	1.05				.11		.21		16.87
Leitchfield G.		.30				.06	.75	.02	.68	1.32	.02		.15	.30	1.04		1.32	1.51		.90	3.78	3.65	.93	3.00	.63			.34			.54	21.85
Lexington *** K.	.31	.71			.01	.44	.12		1.53	1.50	T.		.11	1.10	.10		1.58	.63	T.	.70	2.10	1.88	.19	1.61	T.			.04		.06	.38	15.10
Little Hickman, Lock No. 8 K.		1.10					.60		.68	1.45	.44		T.		1.25		.46	2.00		.70	1.08	1.42	1.43	1.30	.90						.35		14.25
Lockport, Lock No. 2 K.		.52	.40				.97	T.	.57	1.76				.52	.72		.36	1.55	.25		1.80	2.70	5.30	3.15							.15	22.72
LOUISVILLE*** O.	.07	.31				.95	.05	T.	1.62	.70	T.	T.	.09	2.71	.02		1.46	.47	T.	1.70	3.68	1.76	.06	3.11				.18		.05	.18	19.17
Mammoth Cave G.		.80				.09	.42		.55	2.03	.09	.05	.15	1.96	.45		2.68	1.35		2.25	2.17	2.20	1.03	1.16	.40			.69			.55	21.02
St. John K.	.10	.35		T.			.68		1.24	.98				.70	.80		1.65	1.36		.75	4.10	4.05	1.05	4.00	.12		.31	.22					22.46
Salvisa, Lock No 6 K.		.80	.16				.70		.15	2.38	.40		T.	.10	1.10		.40	2.30	T.	.20	1.10	2.30	1.30	.80	.90			T.	T.		.20	15.49
Shelbyville S.	.03	.41	.03			.17	1.05	T.	.90	1.30	T.	.02	.06	1.55	.91	T.	.58	1.34	.05	.61	3.20	2.96	.80	2.50	.95			.10	.02		.47	20.05
Shepherdsville S.		.37				.19	.80		.94	1.05				.05	.53		.83	.85		.57		6.02	.90	.18	4.02			.28				17.59
Stearns	2.42			.08						.47	.44	.14			.98		.68	1.69	.62	.78	.20	.48	1.30	.05	1.00			.88		.24	.03	12.48
Taylorsville S.		.46		T.		.21	.62		.91	1.59	T.	T.	.18	.30	.95			1.45		.48	3.22			7.36								17.67
Tyrone, Lock No. 5 K.		.70	.09			T	.48	T.	.25	2.10	.45		.06	.08	.15	T.	.41	1.70	.03	.20	1.10	2.85	1.62	.85	.80			.03	.10		.45	15.50
Williamstown L.		.40	.20			.12	.70		.80	1.20			.08	1.40	.80		.35	1.20		.70	2.10	2.60	.96	2.10	.73						.33	16.97
Woodbury, Lock No. 4 G.		.32					.61		.18	1.28	.08	.03		.03	1.12		.36	3.10		.66	1.80	4.52	.82	.96	2.00			.23	.11			19.21
Eastern Division																																
Annville K.		2.17	.03				.45			.14	.37	.14	.01		1.89		.46	1.69	.30	1.02	.62	.56	1.31	.40	.78				.60		.40	13.34
Ashland O.		.65	.13				.61			.59	.51		.02		1.24	.02	.01	1.94	.25	.80	.42	4.45	1.73	.73	1.11				.02		.15	11.57
Barbourville C.			3.53				.87		.28			1.58							1.23	.63	.09	1.25		1.37			.61				.32	11.26
Berea K.		1.20				.24	.94		.20	1.25	T.		.18	.18	1.44		1.14	1.43	.06	1.46	1.16	.79	.90	.85	.99			.25			.25	14.91
College Hill, Lock No. 11 K.		1.25					.72			.67	.30	.08	.03		1.23		.37	2.02	.03	.66	.85	1.08	1.15	1.25	.70				.16		.25	12.80
Cumberland C.	T.	1.44	.12			.04						.64	.14	T.	1.52			2.19		T.	.78	.07	.85	1.44	T.			.29			.33	9.65
Cynthiana K.																																
Falmouth K.		.42	.16		T.		.42	T.	.38	1.41	.31		.02	.18	1.76		.30	1.28	.02	.17	1.32	.98		25	.35				.02		.30	10.30
Farmers K.		1.05					.95			1.23	.39				1.58		.20	2.00		.80	.62	.90	1.63		.83				.12		.31	12.40
Flemingsburg K.		.82		.26			.70		.10	2.60	.52				1.24		.24	1.36		.41	.63	1.65	.45	.70	1.09	.27			.11		.49	13.64
Ford, Lock No. 10 K.		1.02	T.				.75		T	1.56	.47	T.	.02	.03	1.20	T.	.29	2.80	T	.52	.84	1.14	1.50	.68	.92			T.	.09		.26	13.98
Greenup, Dam 30 O.		.73	.08				.66			.68	.55		T.		1.41		T.	1.46	.07	.20	.63	3.34	1.54									
Hazard K.		1.60	.07				.58			.05	.28	.20			1.30		.36	1.00	.41	.91	.25	.30	1.03	.05	1.20				.25			9.69
Heidelberg, Lock No. 14 K.		1.70	.15				.46			.40	.46	.11			1.39		.22	2.00	.41	.77	.95	.64	1.21	.39	.66				.43		.28	12.63
Jackson K.		2.50					.45			.25	.35	.15			1.40		.60	1.20	.50	1.30	.30	.50	1.00	.08	1.18				.18		.29	12.23
Jenkins B.		.92	.43				.25				17	.19	.09		1.37	.03	.83	.53	.69	.40	.69	.18	.61	.50	.90	.02			.29		.25	8.74
Livingston C.	2.20					.30			.19	.21	.10				.97	.41	.43	1.80		.26	.51	.75	.31	1.07	1.05				.45		.48	12.59
Louisa K.		.93	.18				.68			.51	.53				1.23			2.00	.53	.41	.63	.51	1.10	.51	.85				.16		.22	10.98
Maysville O.		.55	.07				.86		.04	2.16	.55			.08	1.88		.06	1.41	T.	.25	.75	2.55	1.73	.62	1.25				.02		.38	14.71
Middlesboro C.	.04	2.85		.03		.04	.03		.10		.53	.16			1.35		.78	1.08	.06	.50	.30	.32	.88		1.60			.57	.07		.65	11.94
Mount Sterling L.		1.00			T.	.80		.35	1.64	T.		T	T.	T.	2.25	.75	.26	T		.76	1.00	.87	.80	1.50				T		T		11.97
Oneida K.		1.93					.31				1.47	.18			1.74		.45	1.27	.54	1.12	.11	.51	1.20		1.48				.57		.21	12.09
Oneonta Dam 35 O.		.22	.18				.51	T.	.24	.90	.20		T	.18	2.40		.08	1.50	.02	.06	1.98	2.92	.54	.66	2.43				.02		.35	15.39
Paintsville B.		1.71								.21	.43	.09	.02		1.11		.23	1.14	.66	.42	.66	.53	1.15	.13	.96				.23		.28	9.96
Pikeville B.		1.36				.15	.10		T.	.23	.01	.17			1.38		.79	.88	.03	.84	.25	.08	.81	.02	1.10			.19	T.		.12	8.39
Pippapass K.		1.61				.01	.20			.22	.03	.14	T.		1.31		.85	.72	.09	.85	.28	.09	.75		1.26			.13	.02		.15	8.68
Quicksand K.		2.46					.61		.24		.38	.17			1.52	.60	1.02		.56	.69		.49	.58	.90	.07	1.27				.16		.30	11.94
Ravenna, Lock No. 12 K.		1.35	.12			1.15		T.	.83	.34	.12	.07			1.20		.41	1.90		.82	.77	.79	1.44	.96	.68			T.	.28		.33	13.56
Richmond K.		1.10					.70	T.	.10	1.50	.15	.10			1.30		.40	2.25		.80	.80	1.20	1.40	2.00	1.00				.15		.25	15.40
Valley View, Lock No. 9 K.		1.01		.03		.73		T.	.05	1.60	.38		.03		1.45		.45	2.48	T.	.58	1.05	1.40	1.50	.83	.96				.05		.50	14.88
Vanceburg, Dam No. 32 O.		.68				.03	.50		.02	2.13	.56		.03	.03	1.26		.05	1.40	.03	.10	.82	1.05	1.23	.65	1.10				.05		.34	12.66
Williamsburg C.		2.60	.30			.02	.11				.26	.20		.20	1.59	.03	.75	1.38	.80	.66	.15	.38	1.36	.10	1.16			.03	.58		.32	12.65
Willow, Lock No. 13 K.		1.90					.75			.51	.35	.12			1.25		.76	2.00	.34	1.25	.85	.82	1.50	.30	.72			T.	.38		.38	14.37

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station: precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. ¶Lone Oak.

Daily Temperatures for January, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	47	58	57	45	49	52	65	67	64	35	39	40	61	69	48	37	54	54	38	54	67	56	37	37	37	37	51	50	49	54	53	50.0
	Minimum	35	43	50	28	37	44	52	57	34	32	34	36	36	48	33	18	37	34	35	36	25	24	35	36	32	33	40	41	40	37	36.1
Earlington	Maximum	48	59	56	45	50	53	65	69	65	35	38	38	62	72	49	32	55	55	38	68	68	37	30	36	36	37	49	49	52	58	53	50.4
	Minimum	28	42	26	24	35	43	58	57	33	31	33	35	35	61	32	33	33	35	40	32	30	43	29	18	33	33	25	31	37	40	37	36	35.2
Greenville	Maximum	44	60	58	45	50	52	64	67	64	35	37	38	60	..	71	36	64	52	34	66	64	37	30	36	36	38	52	50	53	56	54	*50.3
	Minimum	18	40	24	21	31	38	50	54	31	30	31	32	34	..	38	20	34	32	30	36	37	29	17	26	30	23	28	36	35	30	34	*32.3
Henderson	Maximum	64	57	54	45	48	51	64	68	72	40	34	34	66	69	48	38	54	53	37	65	64	34	26	32	31	36	46	50	40	50	50	48.8
	Minimum	28	40	24	24	34	37	51	56	29	18	32	32	33	46	23	21	34	31	29	36	33	19	16	24	25	19	23	35	34	35	31	30.7
Hopkinsville	Maximum	49	63	58	48	19	53	66	70	68	36	39	40	62	74	73	49	60	54	41	68	67	39	33	39	38	44	57	47	53	55	43	52.6
	Minimum	33	45	26	23	33	38	52	55	35	32	33	37	37	59	30	23	28	36	32	39	39	29	20	29	32	25	31	34	32	33	30	34.5
Lovelaceville	Maximum	47	55	53	43	50	51	61	65	61	38	34	34	59	67	47	37	54	52	37	64	65	31	24	34	43	35	54	50	51	50	50	48.2
	Minimum	30	42	22	21	30	44	50	58	29	28	29	31	32	47	27	23	35	32	30	37	31	17	13	27	25	21	35	28	35	31	31	31.3
Mayfield	Maximum	47	59	54	45	48	52	62	67	67	42	37	37	60	72	50	40	53	53	39	68	64	42	30	38	33	32	47	51	55	55	55	50.0
	Minimum	32	42	23	23	33	43	51	57	30	29	28	33	34	48	29	23	36	35	30	37	34	22	25	24	23	21	25	37	31	33	32	31.8
Murray	Maximum	48	60	54	47	49	53	64	68	65	39	38	39	61	74	49	41	54	48	41	69	59	37	28	35	37	40	53	54	58	61	53	50.8
	Minimum	30	45	24	19	33	42	52	58	34	29	30	35	37	47	30	22	42	35	31	34	33	23	18	27	30	24	27	36	37	31	35	33.4
Owensboro	Maximum	44	57	56	42	46	50	62	66	62	32	37	37	60	63	40	36	53	54	37	62	62	38	30	36	35	36	49	47	48	50	50	47.6
	Minimum	31	42	24	22	31	38	48	53	30	29	30	30	32	38	28	20	33	30	30	35	36	22	15	26	28	21	27	35	36	37	32	31.1
Paducah	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	47	58	58	48	47	53	66	67	64	33	37	36	61	72	48	40	54	53	39	68	69	36	28	35	37	41	51	52	59	58	53	50.4
	Minimum	32	44	25	20	32	43	53	58	30	30	34	35	48	50	32	22	36	33	31	38	34	22	16	33	28	27	29	22	28	37	35	33.1
Russellville§§	Maximum	57	63	34	41	48	56	61	60	32	35	38	47	63	71	38	48	55	43	69	66	56	34	41	44	35	44	59	48	54	54	45	49.7
	Minimum	29	34	24	20	40	37	45	52	34	31	31	32	35	44	35	21	33	40	31	33	47	31	22	22	31	25	26	30	36	37	42	33.2
Central Division.																																	
Anchorage	Maximum	42	59	46	44	46	59	59	65	64	35	35	35	61	61	46	35	53	53	35	58	53	38	35	37	40	41	48	43	53	54	49	47.7
	Minimum	25	35	26	18	30	36	52	54	35	33	32	32	35	46	26	24	34	31	31	35	35	21	20	24	31	29	26	23	34	32	33	31.4
Bowling Green	Maximum	49	65	58	44	48	53	62	65	62	48	45	40	59	69	67	57	56	55	46	65	65	50	42	55	48	45	58	57	58	57	55	54.5
	Minimum	32	45	28	24	33	39	49	55	39	36	38	38	39	59	38	23	37	38	35	39	35	25	32	35	29	30	39	38	38	43	37	37.0
Danville	Maximum	53	62	60	40	45	50	68	73	65	46	38	43	60	67	68	37	55	55	40	66	66	46	38	48	48	48	58	48	56	57	55	54.4
	Minimum	28	38	27	20	30	34	50	46	44	34	33	35	37	57	35	26	33	38	32	36	36	24	24	28	33	25	26	30	33	34	41	34.6
Dix Dam	Maximum	45	62	43	46	50	50	67	72	68	43	39	42	61	66	64	38	55	55	42	60	66	56	35	56	51	40	52	49	50	57	56	52.8
	Minimum	28	41	24	25	32	38	50	52	43	36	35	37	40	59	38	29	37	42	35	38	49	36	25	32	36	30	29	35	40	37	42	37.1
Eubank	Maximum	56	59	57	55	47	50	63	71	63	50	53	49	59	64	59	54	56	51	47	60	65	58	50	64	57	54	60	51	55	57	54	56.1
	Minimum	32	32	27	31	26	30	42	50	44	30	34	32	39	51	41	36	41	36	34	36	46	35	26	39	35	32	29	34	29	37	33	34.2
Frankfort	Maximum	46	63	61	48	49	53	64	72	68	39	38	40	61	66	53	38	55	55	40	62	60	54	34	42	42	40	48	45	57	56	51	50.8
	Minimum	25	38	29	21	29	36	46	48	38	34	32	34	35	52	33	26	34	39	32	35	50	28	22	32	32	26	27	38	40	35	48	34.5
Glasgow	Maximum	58	63	56	36	48	54	64	70	65	48	40	42	65	69	68	42	55	55	40	65	69	60	45	50	50	39	43	43	50	55	50	53.5
	Minimum	32	54	30	19	34	40	52	51	40	35	34	37	39	60	31	24	40	38	34	40	48	34	31	31	33	29	28	42	37	37	43	37.4
Greensburg	Maximum	50	63	61	44	47	53	64	72	68	45	40	42	64	69	69	43	58	53	41	66	68	64	37	48	52	44	56	49	56	59	57	55.5
	Minimum	25	40	27	19	27	32	50	51	40	34	33	36	38	58	33	24	35	39	33	37	47	34	26	29	33	28	24	30	38	34	48	34.9
Irvington	Maximum	44	63	56	42	49	52	60	65	63	36	38	38	60	68	49	37	54	54	35	63	66	41	32	42	39	39	47	45	51	55	52	49.5
	Minimum	31	29	26	26	36	41	50	55	34	33	33	36	40	49	28	24	35	35	31	35	41	32	20	28	23	23	29	36	37	35	38	33.5
Leitchfield	Maximum	46	64	58	45	50	52	59	64	62	38	37	39	59	68	60	38	54	54	36	63	63	48	32	42	39	41	49	45	49	52	53	50.2
	Minimum	33	40	26	21	34	38	51	54	36	33	35	37	38	53	33	28	34	35	32	36	48	32	21	28	31	26	29	35	35	37	38	35.1
Lexington	Maximum	42	60	49	40	51	51	65	71	59	39	37	42	62	65	48	37	54	50	37	64	52	40	30	64	41	40	49	44	54	56	50	49.8
	Minimum	31	38	24	21	32	36	52	51	39	32	32	36	39	48	29	26	37	32	31	37	36	30	22	30	31	27	25	34	37	36	32	33.6
Louisville	Maximum	45	62	38	44	47	54	61	66	49	36	37	35	66	65	48	39	55	52	37	67	51	36	30	42	48	39	47	48	46	58	50	49.2
	Minimum	32	38	26	25	37	40	54	49	32	33	32	31	35	48	25	23	39	32	32	37	35	19	18	27	27	22	26	37	37	34	42	27.1
Mammoth Cave	Maximum	47	62	58	44	47	53	60	65	63	41	38	39	61	68	66	35	56	54	39	67	69	52	37	61	47	43	53	61	56	59	53	52.3
	Minimum	25	40	26	21	31	37	51	52	37	33	32	36	37	46	31	23	35	36	32	37	47	32	26	28	32	27	22	35	27	24	40	33.0
St. John	Maximum	62	62	58	49	46	55	60	65	63	40	40	38	60	67	49	42	55	53	35	62	63	53	36	53	40	40	50	52	52	54	56	51.9
	Minimum	36	31	30	22	32	36	36	54	40	34	32	32	32	47	32	23	36	33	31	35	41	31	24	28	31	25	34	42	38	36	34	33.8
Shelbyville	Maximum	44	60	59	41	49	51	60	68	63	36	35	35	57	62	57	36	52	52	37	59	63	44	31	40	38	37	45	42	49	58	52	48.8
	Minimum	30	37	27	21	30	35	46	52	36	33	31	32	34	45	31	24	33	37	30	32	44	21	19	24	31	25	26	33	38	38	37	32.5
Stearns	Maximum	61	59	58	48	58	62	56	68	61	56	46	48	62	66	54	48	57	53	41	61	60	70	50	54	65	44	46	46	56	68	53	54.6
	Minimum	55	54	52	44	55	53	52	61	56	35	40	42	59	61	39	26	42	45	37	48	49	39	31	36	52	36	32	39	39	42	47	45.1
Taylorsville	Maximum	44	62	60	41	46	51	62	69	65	40	..	39	59	65	66	38	55	..	37	62	64	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	26	38	28	20	27	34	47	51	37	..	32	33	36	52	32	25	..	35	32	35	43	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	46	58	58	36	41	46	59	65	65	39	34	34	56	49	33	32	52	38	37	58	49	31	32	42	42	33	39	40	53	53	53	45.3
	Minimum	28	37	26	20	30	31	46	62	35	32	30	31	32	48	33	24	31	35	29	31	45	31	20	22	32	24	23	32	35	32	39	32.2
Eastern Division.																																	
Ashland	Maximum	45	60	58	42	48	58	71	74	69	45	38	43	63	72	64	45	51	57	47	57	51	51	39	42	42	43	53	45	59	56	56	53.0
	Minimum	27	39	34	22	27	33	45	42	55	36	34	37	38	54	45	31	35	46	35	37	48	39	28	34	33	32	28	34	46	35	43	37.2
Berea	Maximum	51	60	59	42	49	55	65	71	47	46	39	..	68	66	67	39	57	54	43	61	66	64	38	69	67	42	53	50	60	57	57	*55.5
	Minimum	31	38	29	22	22	33	51	50	45	35	34	39	..	60	37	27	36	41	34	34	41	27	26	30	36	33	27	35	37	38	38	36.6
Cumberland	Maximum	47	58	56	40	57	57	67	70	72	70	74	63	62	70	58	56	55	46	61	66	69	69	68	65	64	59	55	51	54	38	59.3
	Minimum	30	43	33	19	29	30	51	46	49	34	29	32	43	58	48	30	36	37	32	43	51	36	40	38	33	27	35	32	38	35	38.4
Farmers	Maximum	50	55	63	45	58	58	70	75	75	51	39	45	63	70	71	50	53	55	47	64	68	56	42	69	70	45	49	49	49	60	61	57.4
	Minimum	20	35	28	20	22	38	48	40	43	34	31	34	37	58	41	27	30	42	32	34	46	36	25	28	30	28	23	28	31	30	44	33.5
Heidelberg	Maximum	49	60	60	44	42	47	67	73	67	50	40	45	63	69	64	43	56	56	47	56	67	64	44	70	68	45	52	49	50	57	56	55.7
	Minimum	26	35	39	19	28	28	43	41	61	38	36	40	42	54	43	32	35	47	37	39	49	34	33	40	33	30	23	26	29	40	33	36.7
Maysville	Maximum	53	51	60	41	43	58	67	72	64	52	42	64	61	67	67	42	60	60	40	68	65	65	40	68	65	44	58	53	56	61	56	56.2
	Minimum	39	41	27	17	27	28	33	44	47	36	35	44	41	39	36	29	36	36	37	38	49	38	30	34	37	34	28	35	30	33	33	35.0
Maysville	Maximum	44	62	56	41	49	55	63	72	50	44	41	60	68	59	58	55	55	43	62	64	46	32	48	48	42	42	47	42	54	52	52	52.0
	Minimum	25	36	25	20	26	29	46	43	40	33	30	38	30	52	34	27	32	40	31	34	46	32	32	42	34	32	25	28	34	30	30	33.1
Mid-Flesboro	Maximum	48	..	57	50	45	52	59	68	69	68	64	58	67	69	65	58	65	60	36	63	70	66	67	67	62	51	56	54	46	54	54	*60.0
	Minimum	36	..	38	30	30	30	48	51	57	45	40	45	47	54	50	30	40	50	46	48	51	49	39	40	45	37	26	38	41	56	44	*41.5
Mount Sterling	Maximum	41	61	55	41	58	55	65	71	68	45	37	43	61	67	51	36	55	54	39	61	66	56	46	68	58	48	49	48	55	61	52	52.7
	Minimum	22	37	27	19	31	35	50	52	42	35	32	35	37	59	36	28	33	34	33	35	47	33	23	30	28	27	23	32	31	31	38	35.1
Pikeville	Maximum	45	61	51	43	44	50	71	72	63	37	35	38	65	65	59	39	52	52	43	62	55	43	33	62	40	37	46	49	49	54	50	50.5
	Minimum	32	42	29	25	24	30	52	51	33	34	34	36	44	46	37	26	37	30	28	40	36	35	29	28	35	28	28	34	35	40	40	34.4
Pippapass	Maximum	51	61	60	48	45	63	74	76	61	66	44	47	65	74	71	50	62	69	54	65	65	75	48	73	71	46	56	52	60	61	55	59.9
	Minimum	29	40	38	24	25	30	44	41	47	39	36	42	43	55	49	32	33	50	38	39	50	47	33	36	46	36	25	30	30	32	41	38.3
Quicksand	Maximum	47	62	61	45	41	51	71	75	68	57	41	46	65	73	68	47	60	62	49	65	69	67	44	73	74	46	54	41	54	61	56	57.8
	Minimum	25	37	33	21	23	26	44	42	46	35	34	33	42	60	43	30	32	46	35	37	47	40	30	32	36	31	24	28	34	36	44	35.6
Richmond	Maximum	55	55	40	42	40	46	58	68	72	47	38	40	50	64	68	48	45	55	48	59	69	50	45	53	66	40	55	60	44	60	60	52.5
	Minimum	36	36	28	22	33	35	40	53	41	37	33	35	37	50	43	28	35	45	33	35	47	38	25	28	35	28	26	26	35	37	45	35.9
Williamsburg	Maximum	69	61	59	42	44	57	58	73	73	68	48	47	67	72	70	52	65	70	49	66	72	74	43	68	66	48	61	47	57	60	55	59.7
	Minimum	29	36	32	21	32	31	48	48	56	37	37	41	41	59	43	28	39	45	39	41	50	41	34	38	39	34	26	37	39	35	46	38.9

§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
* 1 to etc. 1, 2, etc., days missing from record.
W. B. U. Louisville 2-27-37-22-m

Nat. Hist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., FEBRUARY, 1937 No. 2

GENERAL SUMMARY.

Temperatures averaged somewhat below normal, but brief intervals of unseasonable warmth caused some growth of winter grains and pastures. On the lands with good drainage they continued to improve slowly. Early shrubs began to put out leaves. The untimely advance of vegetation was checked by the cold week at the end of the month.

Precipitation averaged about two-thirds of the normal amount, but occurred so frequently as to keep the surface soil wet most of the time. Despite the light rains soil drainage improved slowly and standing water on uplands disappeared. Overflowed bottom lands along the Ohio, Green, and lower courses of the Cumberland and Tennesse rivers gradually emerged from the middle of the first week to the end of the month. In the region of the Mississippi and lower Ohio, large areas remained covered throughout the month. The soil was too wet at all times to permit of plowing. Land that had been plowed early in the winter was badly run together by the heavy rains.

Toward the middle of the month, as the soil settled and fields could be entered, farmers began sowing clover seed and preparing tobacco plantbeds. The light drizzly rains interfered with this work. It was only during short periods that anything could be accomplished; hence progress with spring work was slower than usual, and the month closed with farming operations rather backward. Moderate to heavy snow, strong winds, and low temperature in the last week put an end to outdoor work.

Frequent freezing and thawing, with the surface soil full of water, caused some lifting effect on winter grains. The plants were generally well rooted and resistant, therefore the damage was not great. Overflowed grains, pastures, and meadows reappeared from the mud and water in poor condition, with some areas seemingly dead. However, as subsurface drainage improved, they showed feeble indications of recovery. The type and frequency of rainfall were favorable for handling tobacco, and the delays of the preceding month were largely made up. Rye pastures were available in places, also bluegrass on south slopes, but the soft turf made grazing inadvisable.

TEMPERATURE.

Temperatures varied rather sharply in short periods. They ranged from 5° to 19° below the normal daily mean in the first five days, the last week, and a few days near the middle of the month. In most districts the coldest days were the 11th and 25th, when minima of 11° to 16° were reported. Daily excesses of 5° to 15° occurred in the periods, 6-8th, 12-15th, and 18th-21st. The range for the State was between 11° at several stations on the 11th or 25th, and 78° at Pikeville and Pippapass on the 8th.

PRECIPITATION.

In the southeastern counties and at a few northeastern stations the monthly precipitation ranged from 3.5 to 4.5 inches. These districts received approximately the normal amount. There was a general decrease northwest toward the Ohio River. Stations near the stream from Union County to the mouth of the Licking reported from 1.1 to 2.0 inches, or an average of about one-half the normal amount for the district. An area of correspondingly light precipitation included about ten southwestern counties. Most central districts received from 2.0 to 2.5 inches. The daily distribution was quite irregular but the frequency unusually high. Measureable amounts were reported on nearly every day from the 7th to 28th. The only heavy rains occurred in the period 8-9th. The snowfall ranged from 2.0 inches in the extreme north to 5.0 inches or more in the central and southeastern districts. Most of the snow fell in the period 23d-28th. Days with thunderstorm were: 7, 8, 20, 21.

MISCELLANEOUS.

Rivers.—The great flood of January 1937, subsided rapidly in the upper Ohio during the first week and very slowly in the lower river toward the end of the month. The river fell below flood stage at Ashland on the 3d; Cincinnati, 5th; Louisville, 7th; Evansville 12th; Cairo, 27th. The crest at Cairo was 59.6 feet on the 3d. Ground water remained high in Louisville and caused much trouble in basements until the close of the month. It is officially estimated that 21,661 farmers of the State suffered flood losses aggregating $10,000,000. Farm homes to the number of 1,458, and 5,108 other buildings, were destroyed. During the flood precipitation excessive erosion occurred on nearly 1,000,000 acres, and deposits of silt and gravel on 244,856 acres. It is estimated that half of the 1936 burley tobacco crop in warehouses had been damaged to some extent by flood water.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.08	30.66	2	29.45	8	11.4	82	sw.	21	87	83	80	56
Cincinnati ..... Ohio	30.06	30.67	2	29.80	21	9.7	35	sw.	21	74	65	68	46
Evansville..... Ind.	30.08	30.69	2	29.38	8	12.2	43	sw.	8	72	64	66	45
Louisville ..... Ky.	30.08	30.72	2	29.39	21	12.9	41	sw.	21	76	67	69	51

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	34.1	74	3	1.91	....	..	..	..	..
1890	45.6	86	16	7.58	....	..	..	..	..
1891	42.2	76	0	4.72	....	..	..	..	..
1892	42.2	70	11	2.92	....	..	..	..	..
1893	37.7	70	3	4.40	....	..	..	..	..
1894	34.6	74	2	4.66	....	..	..	..	..
1895	25.9	80	— 18	0.66	...	5	12	8	8
1896	37.4	81	— 2	3.06	....	9	9	8	12
1897	39.8	76	18	5.75	1.2	11	8	7	13
1898	37.4	77	— 3	1.61	2.6	6	10	8	10
1899	26.2	71	— 30	3.97	10.8	11	9	6	13
1900	32.5	76	— 9	4.68	7.0	12	7	8	13
1901	32.4	71	1	1.27	2.1	6	10	7	11
1902	27.9	69	— 3	1.30	2.8	7	10	6	12
1903	37.5	75	— 16	7.28	6.1	9	11	4	13
1904	35.2	75	— 2	2.32	2.6	7	11	8	10
1905	27.9	67	— 16	2.44	3.9	9	10	5	13
1906	34.7	75	— 12	1.81	5.9	7	16	5	7
1907	35.7	73	— 10	3.06	7.6	9	11	5	12
1908	35.6	70	2	5.56	3.1	13	9	5	15
1909	42.4	75	— 8	8.17	1.0	11	12	4	12
1910	32.9	66	— 12	4.70	11.9	10	12	4	12
1911	42.0	80	11	3.25	0.4	9	10	4	14
1912	29.7	68	— 14	3.08	3.3	7	10	5	14
1913	34.8	77	— 2	2.94	1.4	7	14	5	11
1914	32.2	69	— 2	4.14	7.2	11	10	5	13
1915	41.9	75	13	1.74	0.2	8	9	6	13
1916	35.0	72	— 4	2.99	5.0	9	11	6	12
1917	34.8	80	— 9	3.51	4.7	8	9	8	11
1918	39.3	83	— 8	2.04	0.6	7	11	8	10
1919	38.6	69	12	1.79	1.1	9	11	5	12
1920	35.7	71	0	2.27	3.8	9	8	5	16
1921	41.3	77	11	3.20	8.9	19	8	5	15
1922	41.3	76	4	3.58	0.8	10	8	6	14
1923	34.6	74	— 4	4.67	1.6	10	10	5	13
1924	36.0	71	9	2.56	1.9	9	9	5	15
1925	44.0	76	8	3.91	0.6	9	12	6	10
1926	41.1	70	4	3.14	1.4	19	8	7	13
1927	45.6	81	15	2.65	4.2	11	10	6	12
1928	38.1	72	5	2.48	1.0	10	11	4	14
1929	31.2	68	— 14	3.58	12.6	9	10	7	11
1930	45.1	80	2	3.49	0.5	8	11	7	10
1931	41.6	76	12	3.20	0.3	8	12	4	12
1932	46.7	82	15	3.36	T.	8	14	5	10
1933	37.5	75	— 9	4.25	4.4	12	13	5	10
1934	31.8	72	— 19	2.20	8.0	7	12	7	9
1935	40.1	73	5	2.85	0.6	8	9	7	12
1936	32.1	79	— 14	1.95	5.5	9	12	5	12
1937	38.8	78	11	2.40	4.2	10	8	8	12
Period	36.9	86	— 30	3.37	3.7	9	10	6	12

†48 year averages.

Natural History Survey
Library

Climatological Data for February, 1937.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall	....	33	39.7	+ 0.6	69	8	20	10†	22	2.49	.....	0.88	3.5	....	....	....	....	....	Tennessee Valley Authority.
Calhoun	McLean	437	33	39.7	+ 0.6	69	8	20	10†	22	2.47	−0.85	0.62	5.9	10	2	18	8	n.	W. A. Taylor.
Earlington	Hopkins	420	47	39.8	+ 2.0	73	8	18	5	32	2.61	−0.92	0.74	7.0	13	14	2	12	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	2.09	.....	0.98	3.5	7	....	....	....	....	Lockmaster.
Greenville	Muhlenburg	519	20	38.6	− 1.4	73	8	14	26	33	1.77	−1.44	0.50	7.2	9	9	14	5	n.	C. R. Lovell.
Henderson	Henderson	382	23	36.3	.....	72	8	11	25	30	1.80	−0.86	0.58	2.5	11	5	15	8	nw.	Frank Street.
Hopkinsville	Christian	524	41	39.0	− 0.2	74	8	19	5	38	1.34	−2.29	0.45	2.7	7	11	12	5	se.	W. E. Graves.
Lovelaceville	Ballard	....	8	38.3	.....	75	8	17	2†	31	2.25	.....	0.90	4.0	4	11	8	9	n.	Blaine Malone.
Mayfield	Graves	364	28	39.8	− 0.2	73	8	19	5†	32	1.35	−2.03	0.40	3.5	8	10	10	8	s.	Mrs. Joe Payne.
Murray	Calloway	412	11	39.2	− 1.4	77	8	17	5	31	1.76	−1.54	0.68	3.5	5	8	12	8	n.	Harry B. Arnold
Owensboro	Daviess	479	40	36.7	+ 0.2	72	8	14	25	27	1.50	−1.35	0.40	4.5	12	9	8	11	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4	....	....	....	....	....	....	....	1.72	−0.90	0.64	5.0	10	....	....	....	....	Lockmaster.
Paducah **	McCracken	516	20	....	....	....	....	....	....	....	2.11	−1.20	1.12	4.0	7	9	5	14	....	Joe Lagore.
Princeton	Caldwell	529	30	39.4	+ 1.6	73	8	18	2†	32	2.45	−1.04	1.00	4.5	11	7	10	11	sw.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	20	....	....	....	....	....	....	....	2.24	−0.98	0.67	5.0	9	....	....	....	....	Lockmaster.
Russellville	Logan	590	26	38.0	− 0.3	75	8	11	2	31	1.89	−1.59	0.55	.....	8	9	7	12	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	1.92	−0.40	0.50	4.0	10	....	....	....	....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	2.03	−0.63	0.60	3.8	10	....	....	....	....	Lockmaster.
Anchorage	Jefferson	700	36	36.6	+ 2.1	73	8	14	11†	30	1.68	−1.18	0.46	5.0	9	10	8	10	w.	C. E. Barret.
Bowling Green	Warren	500	48	40.9	+ 1.9	75	8	19	2†	27	1.27	−2.35	0.55	3.5	6	8	13	7	w.	Mrs. Lillie G Causey.
Brownsville, Lock 6 ‡	Edmonson	420	20	....	....	....	....	....	....	....	2.21	−1.76	1.10	0.5	9	....	....	....	....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	2.93	−0.85	0.91	4.0	12	....	....	....	....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	38	....	....	....	....	....	....	....	1.35	−1.25	0.72	....	5	....	....	....	....	Lockmaster.
Cold Spring, Dam 36	Campbell	499	11	....	....	....	....	....	....	....	1.61	−0.78	0.35	2.0	8	....	....	....	....	Lockmaster.
Danville	Boyle	540	4	38.0	.....	74	8†	13	11	45	2.23	−0.90	0.90	5.0	8	4	10	14	s.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	38.9	− 1.4	73	8	16	11	33	2.82	−0.65	0.75	4.0	8	9	6	13	nw.	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	2.74	.....	1.27	4.0	7	....	....	....	....	Lockmaster.
Eubank	Pulaski	1177	43	39.8	+ 1.6	69	8	14	11	28	2.08	−1.31	0.53	.....	7	6	3	19	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	37.6	+ 0.8	73	8	16	25	29	2.17	−0.97	1.05	4.0	9	6	6	16	w.	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	1.52	−1.72	0.61	5.0	9	....	....	....	....	Lockmaster.
Glasgow	Barren	780	11	41.0	− 0.6	75	8	16	11†	33	1.84	−1.69	1.00	.....	4	17	3	8	n.	R. L. Beatty.
Grant, Dam 38	Boone	780	12	....	....	....	....	....	....	....	1.13	−1.08	0.33	1.5	7	....	....	....	....	Lockmaster.
Greensburg	Green	581	44	39.2	+ 2.9	76	8	13	11	45	1.95	−1.66	0.94	2.0	10	1	4	23	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	2.58	−0.56	0.73	5.0	14	....	....	....	....	Lockmaster.
Irvington	Breckinridge	646	39	38.0	+ 1.3	73	8	16	25	28	1.51	−1.63	0.34	4.5	9	11	4	13	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	1.96	−1.00	1.05	.....	9	....	....	....	....	Walter Killion.
Leitchfield	Grayson	635	41	38.0	+ 1.6	74	8	15	25	31	2.28	−1.10	0.50	5.0	11	7	12	9	sw.	H. H. Willis.
Lexington	Fayette	989	53	35.5	+ 0.1	74	8	15	11	33	2.77	−0.85	0.60	6.7	14	12	8	8	.....	U. S. Weather Bureau.
Little Hickman, Lock 8 ¶	Jessamine	560	26	....	....	....	....	....	....	....	2.17	−1.19	0.94	4.0	8	....	....	....	....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	1.88	−0.99	0.42	2.5	8	....	....	....	....	Lockmaster.
Louisville	Jefferson	459	64	35.8	− 1.4	73	8	13	25	34	1.65	−1.90	0.38	6.2	12	7	10	11	s.	U. S. Weather Bureau.
Mammoth Cave	Edmonson	....	....	37.4	.....	74	8	11	2†	33	2.42	.....	0.40	3.1	16	10	8	10	sw.	Ivan J. Ellsworth.
St. John	Hardin	777	41	38.7	+ 3.3	71	8	11	25	32	1.38	−2.24	0.26	4.0	9	14	7	.....	.....	Sisters of Loretto.
Salvisa, Lock 6 ¶	Mercer	520	23	....	....	....	....	....	....	....	2.25	−0.89	0.55	....	8	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	805	48	36.2	+ 2.1	70	8†	14	25	42	3.10	−0.30	0.52	7.2	16	8	2	18	sw.	Miss Ruth Ratta.
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	2.35	.....	0.60	6.0	9	7	6	15	sw.	A. McLeod.
Stearns	McCreary	1400	....	37.4	.....	72	8	15	2	27	4.10	.....	1.06	2.2	14	7	5	16	sw.	Geo Wright
Taylorsville	Spencer	489	35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Elizabeth J. Bourne.
Tyrone, Lock 5 ¶	Anderson	524	19	....	....	....	....	....	....	....	2.39	−0.71	0.54	4.1	14	....	....	....	....	Lockmaster.
Williamstown	Grant	943	34	34.8	+ 1.0	72	8†	13	25	35	2.55	−0.16	0.55	1.5	11	15	8	5	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20	....	....	....	....	....	....	....	1.35	−2.16	0.41	4.0	8	....	....	....	....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	2.55	.....	1.03	5.5	12	2	11	15	sw.	W. A. Worthington.
Ashland	Boyd	534	18	38.2	+ 1.5	77	8	15	11	40	3.03	−0.09	0.73	5.0	14	7	6	15	sw.	Lockmaster.
Barbourville	Knox	....	....	....	....	....	....	....	....	....	3.05	.....	1.54	.....	5	....	....	....	.....	Mrs. Ralph Tuggle.
Berea	Madison	1070	32	39.2	+ 2.0	75	8	14	11	39	1.71	−1.48	0.71	3.5	8	6	10	12	w.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	27	....	....	....	....	....	....	....	1.74	−1.19	0.73	4.0	13	....	....	....	....	Lockmaster.
Cumberland	Harlan	....	....	40.2	....	73	8†	12	11	40	4.43	....	2.01	1.9	8	16	3	9	nw.	C. Bertrand Fields,
Cynthiana	Harrison	684	19	....	....	....	....	....	....	....	2.68	−0.38	0.95	....	8	....	....	....	....	P. H. Kelloe.
Falmouth	Pendleton	600	48	....	....	....	....	....	....	....	2.03	−0.56	0.44	2.7	12	....	....	....	....	J. V. Oldham.
Farmers	Rowan	668	29	37.8	+ 0.9	76	8†	15	25	46	2.58	−0.52	0.71	.....	9	4	8	16	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12	....	....	....	....	....	....	....	2.54	−0.55	0.91	....	6	....	....	....	....	C. A. Glascock
Ford, Lock 10 ¶	Clark	637	21	....	....	....	....	....	....	....	2.55	−0.42	1.00	4.0	13	....	....	....	....	Lockmaster.
Greenup, Dam 30	Greenup	1197	9	....	....	....	....	....	....	....	3.89	+1.06	1.80	3.0	11	....	....	....	....	Lockmaster.
Hazard	Perry	869	13	....	....	....	....	....	....	....	2.74	−0.72	1.40	.....	10	....	....	....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	39.2	.....	76	8	11	11	41	2.77	−0.29	1.19	5.0	14	4	6	18	sw.	Lockmaster.
Jackson	Breathitt	540	17	....	....	....	....	....	....	....	3.35	.....	1.12	4.0	11	....	....	....	.....	Jas T Goff.
Jenkins	Letcher	776	....	....	....	....	....	....	....	....	4.70	+0.88	1.75	8.0	14	....	....	....	.....	R. J Hiward,
Livingston	Rockcastle	950	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	B. H Griffin.
Louisa	Lawrence	584	33	....	....	....	....	....	....	....	2.91	+0.15	0.75	.....	8	....	....	....	.....	Lockmaster.
Maysville	Mason	....	17	35.5	+ 0.4	75	8	12	17	38	3.85	+0.75	1.55	5.0	15	2	12	14	sw.	Lockmaster.
Middlesboro	Bell	1524	40	*40.5	+ 0.7	72a	8	14a	11	46a	4.19	+0.17	1.98	9.0	5	6	19	3	.....	Matthew Woodson
Mount Sterling	Montgomery	1128	41	36.5	+ 2.2	75	8	14	11	36	2.77	−0.84	0.80	6.2	8	4	13	11	nw.	W. R McKee.
Oneida	Clay	930	47	....	....	....	....	....	....	....	3.18	.....	1.12	3.2	9	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35 ¶	Campbell	497	10	....	....	....	....	....	....	....	1.67	−0.96	0.27	4.0	8	....	....	....	.....	Lockmaster.
Paintsville	Johnson	567	3	....	....	....	....	....	....	....	2.76	.....	0.95	3.4	16	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	31	40.0	.....	78	8	14	11	39	3.75	+0.61	1.64	3.0	12	6	9	13	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	3	39.3	.....	78	8	14	11	45	3.27	.....	1.75	3.5	10	9	8	11	.....	Cane Run Com. Cen.
Quicksand	Breathitt	732	11	*37.4	− 2.8	77a	3	13a	11	44a	2.80	−0.90	1.80	6.0	6	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	1.62	−1.45	0.81	.....	9	....	....	....	.....	Lockmaster.
Richmond	Madison	926	46	37.9	+ 1.1	76	9	15	11	43	1.85	−1.33	0.75	.....	7	4	0	24	.....	I. W. Crooke.
Valley View, Lock 9	Madison	571	24	....	....	....	....	....	....	....	2.55	−0.82	1.04	5.2	12	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	3.35	−0.08	1.46	.....	12	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	38	39.7	+ 0.3	75	8	16	11	35	3.98	+0.47	1.63	6.0	16	11	4	13	.....	John W. Stephens.
Willow Lock 13	Lee	646	20	....	....	....	....	....	....	....	2.64	−0.24	1.30	4.0	11	....	....	....	.....	Lockmaster.
State averages and extremes		....	....	38.3	+ 1.4	78	8	11	2†	46	2.40	−0.57	2.01	4.2	10	8	8	12	sw.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
* Also on other dates. †† Received too late to be included in means and summaries
¶ Post-office addresses: — Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.
‡ Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
T Precipitation is less than 0.01 inch rain or melted snow
* * Precipitation by U. S. Engineers.
§ Lone Oak.

Daily Precipitation for February, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.	.41								.88								.65			.23								.32				2.49
Calhoun G.							.45	.62	.14				.18	.10			.04			.39	T.	.11	T.	T.	T.		.04	.37				2.47
Earlington G.							.32	.74	.15				.24	.06		.12		.35	.07	.10	.21		.01				.19	.14				2.61
Fords Ferry Dam 50‖ O.							.06	T.	.98		T.			.30		T.	T.	.22		.03	.14	T.	T.	T.	T.		.82				2.65
Greenville G.							.25	T.	.50				.15			.12		.30			.05		.05				.10	.25				1.77
Henderson O.							.06	.58	.05				.25			.05		.27	.08	.05	.01						.15	.25				1.80
Hopkinsville C.								.15					.45			.07	T.	.22	T.	.16	T.					T.	.16	.11				1.33
Lovelaceville M.							.15	.90					.60														.60				2.25
Mayfield M.							.03	.23	.23				.40			.05		.11	T.	T.							.25	.05				1.35
Murray T.		T.					T.	.38					.68			T.	T.			.24		.11	T.				.35				1.76
Owensboro O.				T.			.10	.17	.21				.06	.15		.02		.40		.12	.03		.02	T.		.05	.18				1.50
Owensboro, Dam 46 ‖ G.							.02	T.	.64					.03	T.	.12	T.	.42	T.	.14	T.	.03	.01	T.	T.		.16				1.72
Paducah O.							.08	T.	1.12					.34	T.	T.	.16		.08		.12		T.				.21				2.11
Princeton G.				T			.20	1.00					.28		T.	.05	T.	.30	.10	.01	.05		.01			.20	.25				2.45
Ramsey, Lock No. 2 ‖ G.							.28	.14	.67			T.		.28		.03	T.	.35		.12	T.	T		.02	T.		.25				2.24
Russellville ‖ G.								.21	.55				.31			.06		.25		.17			.04			.30					1.89
Uniontown, Dam 49 ‖ O.							T.	.20	.50					.46		.20	T.	.20		.04	.06	.02	.05			.19					1.92
Central Division																																
Addison, Dam 45. ‖ O.				T.	T.		.02	.14	.60					.35		.04	T.	.27		.17		T.	.18		.01	T		.25				2.03
Anchorage O.							.16	.46					.22	.03		.09		.13		.14	T	T.	.13			T.	T.	.32				1.68
Bowling Green G.							T.	.10	.55					.25		.02	T.						.05					.30				1.27
Brownsville, Lock No. 6 ‖ G.							.03	.06	1.10							.10	.02	.33	.03	.32								.23				2.21
Burnside ‖ C.	.04			T.			.08	.18	.91					.22		.47	T.	.22	T.	.35	.08	.12		.16		T.		.12				2.95
Carrollton ‖ (Lock No. 1) K.									.72					.26				.12		.08			.17								1.35
Cold Spring, Dam 36 ‖ O.				T.				.16	.35					.32		.21	T.	.14	T	.10	T.	.22	.11		T.	T.						1.61
Danville K.				T.			.17	T.	.90	T.				.23		.03		.10		.21	.36			T.	T.		.21					2.23
Dix Dam, Burgin ‖ K.							.23	.75					.30				.15			.26			.28	.05				.30				2.32
Eadsville ‖ C.					.13				1.27	.37							.16			.32				.19		T						2.74
Eubank C.							.11			.93								.19		.30		.19	.08				.28					2.08
Frankfort ‖ K.				T.	T.	T.	T.	1.05	.27					.23		.08	T.	.10	T.	.04	T.	.02	.08		T.		.30					2.17
Gest, Lock No. 3 ‖ K.							.04	.61	.34					.12		.08		.10		.11			.04				.08					1.52
Glasgow G.							.07	.07					.70															1.00				1.84
Grant, Dam 35 ‖ O.								.12	.33					.24		.20		.10		.06	T.		.08		T.	T.					1.13
Greensburg G.				T.			.03		.94				.02	.10	T.			.28		.29	.02		T.	.10			.01	.14				1.95
High Bridge, Lock No. 7 ‖ K.	.01			T.	.02		.01	.55	.78					.29	.02	.03	T.	.10		.24		.20	.10			.01		.22				2.53
Irvington O.							.09	.23	.32				.11	.13		.04		.19		.06	T.		T.		T.	T.	.34					1.51
Lancaster ‖ K.							.12	1.05					.10		.03		.10		.18		.12		.01					.25				1.96
Leitchfield G.							.32	.50	.20				.17	.18		.06		.31		.20			.02				.67	.25				2.28
Lexington *** K.				.01		T.	.48	.59	.02	T.			.33	T.	.06	.12		.15	.04	.08	.27		.14	T.	T.	T.	.35	.13				2.77
Little Hickman, Lock No. 8 ‖ K.							.20	.10	.94					.23	T.	.10		.10	T.	.20								.30				2.17
Lockport, Lock No. 2 ‖ K.							.15	.42	.40					.12		T.		.20		.10			.12					.37				1.88
Louisville *** K.				T.		T.	.23	.25		T.			.20		.07	.03		.14	.03	.13	T.	.05	.09		T.	T.	.31	.07				1.65
Mammoth Cave G.						.02	.07	.33	.40				.19	.21		.07		.40	.02	.34	.01		.05	.06	.01		.09	.15				2.42
St. John S.									.20					.19	T.	.08		.22		.04					.09		.09	.26				1.38
Salvisa, Lock No 6 ‖ K.							.35	.12	.55				.21	.25	T.	T.		.20		.30		T	.18		T.	T.		.80				2.25
Shelbyville S.						.01	.48	.14	.52	T.			.07	.33		.16	.05		.52	.10	.04	T.	.22	.02	.01	T.	.03	.41				3.10
Shepherdsville S.							.38	.50					.08	.22		.30				.13			.02				.60				2.35
Stearns						.30	.25	1.06	.84				.32		.12	T.	.07	.03	.40		.10		.03	.17			.22	.19				4.10
Taylorsville S.																																
Tyrone, Lock No. 5 ‖ K.				T.			.03	.50	.54				.34		.02	.10	.03	.12	.03	.15		.12	.15		.02	.02	.35	.24				2.39
Williamstown L.							.08	.37	.35					.56	.04	.31		.03		.15	.35		.18					.09				2.55
Woodbury, Lock No. 4 ‖ G.							.08		.32					.11		.04		.23		.18				.03				.41				1.35
Eastern Division																																
Annville .02							.13	.18	1.03					.13		.20		.08		.24	.03	.10		.11				.30				2.55
Ashland ‖ O.	.09							.70	.73	.15				.15		.41	.18		.01	.12	.05	.28	.11	.03	T.			.04				3.05
Barbourville C.							1.54						.13				.53				.24							.61				3.05
Berea K.					T.		.16	T.	.71					T.	.02	.21		.10		.15	.15							.21				1.71
College Hill, Lock No. 11 ‖ K.	.03					T.	.10	.73						.10	.02	.07	.09	.08	T.	.20	.04	.16	.05					.07				1.74
Cumberland C.					T.	.02	T.	.50	2.01							.45							.10	1.00	.02		T.	.93				4.43
Cynthiana L.					T.			.95	.51				.22	.10		T.		.20	T.	.25	T.		.15	T		T.		.30				2.68
Falmouth ‖ L.		T.		T.	T.	T.	T.	.30	.23					.35	.02	.44	.02	.07	T.	.08	T.	.18	.20		T.	.02	T.	.06				2.03
Farmers ‖ L.	.81							.71	.54					.19		.09				.31		.13		.13				.17				2.58
Flemingsburg ‖ L.								.91	.68					.18							.27	.30						.24				2.54
Ford, Lock No. 10 ‖ K.	.01			T.	.02		.04	.40	1.00	T	T.			.17	T.	.11	.04	.11	T.	.15		.16	.10	T.	T.	T.		.18				2.55
Greenup, Dam 30 ‖ O.					T.			1.80	.60					.12		.63	.16	T.	.01	.15	.04	.20	.15	.03	T.		T.					3.89
Hazard ‖ K.	.12						.18	.35	1.40			.20	.05				.05				.09		.25					.05				2.74
Heidelberg, Lock No. 14 ‖ K.	T.				T.		.02	.22	1.19	.05				.17	.02	.25	.09	.02		.24	.03	.22		.04		T.		.21				2.77
Jackson K.							.06	2.11	.10					.25	T.	.25	T.	.07	T.	.06	.54		T.					.40				3.35
Jenkins ‖ B.							.22	.39	1.75	.04					.09	.47	.17	.07		.30		.23		.60	.08	.03		.31				4.70
Livingston C.																																
Louisa ‖ B.								.63	.73					.21		.37		.26	.12		.45	.12										2.91
Maysville ‖ O.	.04			.03	.02			1.55	.73					.25	T.	.40	.06	.10	.08	.10	.05	.27	.13	.02	T.	T.		T.				3.85
Middlesboro C.							.95	.21	1.98											.35							.70					4.19
Mount Sterling L.							.70		.80	T.			T.	.30				.10		.10	.42							.35				2.57
Oneida C.							.22	.23	1.12					.31		.25		.34		.27		.12						.32				3.18
Onconta Dam 35 ‖ O.		T.		T.	T.			.26	.25					.27		.18	T.	.11	T	.11	T.	.22	.27		T.	T.		T.				1.67
Paintsville ‖ B.	.02				.03		.02	.21	.95	.10				.16	.01	.46	.23		.08	.19	.01	.16				.02	T.	.16				2.76
Pikeville ‖ B.				T.	T.		.22	.04	1.64	T.	T.			.14	.04	.61	T.	.03		.16	.18	T.	.15	.14	T.	T.	T.	.40				3.75
Pippapass K.				T.			.34		1.75	T.				.15		.15		.10		.18	.10		.12	.18	T.	T.		.20				3.27
Quicksand ‖ K.					T.	.09		T.	1.30					.31	T.	.42					.41						T.	.27				2.80
Ravenna, Lock No. 12 ‖ K.					T.		T.	.11	.81		T.				.08	.11	.10	T.	T.	.12	.05	.12		T.	T.	T.	T.	.12				1.62
Richmond K.								.25	.76						T.	T.	.10	.10		.15		.28						.25				1.85
Valley View, Lock No. 9 ‖ K.	T.						.04	.35	1.04		T.			.28	.01	.05	.05	.12	T.	.17		.12		.12			T.	.20				2.58
Vanceburg, Dam No. 32 ‖ O.					.06			1.46	.60					.16		.21	.24	.03	.04	.12		.16	.21	.03								3.35
Williamsburg ‖ C.	.01				.02		.58	.14	1.64	.10				.10		.17	.04	.09		.33	.03	.16		.29	.02			.44				3.98
Willow, Lock No. 13 ‖ K.								.12		1.30				.15	.05	.20	.10	.05		.20	T.	.22				.03		.22				2.64

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

† Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi. ¶ Lone Oak.

Daily Temperatures for February, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	37	33	37	38	40	52	60	69	48	31	42	57	54	50	60	52	42	45	54	62	55	48	45	45	42	39	37	35	..	..	..	46.8
	Minimum	29	21	27	30	25	33	39	43	32	20	25	38	43	34	41	30	34	38	38	43	38	33	36	31	29	26	30	30	..	..	..	34.5
Earlington	Maximum	37	33	39	38	41	55	68	73	47	31	48	57	55	50	61	55	42	48	55	54	61	49	46	46	45	39	37	34	..	..	..	48.4
	Minimum	29	20	28	31	18	32	37	65	28	20	19	36	45	33	41	29	31	37	33	47	36	30	34	28	19	19	26	26	..	..	..	31.8
Greenville*	Maximum	34	34	40	36	45	53	69	73	59	31	49	58	55	50	61	56	40	45	55	64	60	50	44	47	40	40	39	33	..	..	..	48.6
	Minimum	28	18	25	30	15	33	36	53	27	18	15	34	44	29	41	26	28	34	28	44	33	24	31	24	16	14	24	26	..	..	..	28.5
Henderson	Maximum	30	31	38	33	36	46	60	72	53	30	42	54	48	46	62	49	42	46	50	60	58	45	48	42	34	36	34	34	..	..	..	44.5
	Minimum	24	12	24	26	17	35	33	43	26	16	12	37	41	31	39	28	30	35	35	45	32	28	29	24	11	23	25	25	..	..	..	28.1
Hopkinsville	Maximum	30	32	39	39	42	53	70	74	52	30	50	60	50	46	61	57	40	46	55	62	60	50	49	44	43	33	36	..	..	..	..	47.9
	Minimum	22	21	29	25	19	27	32	57	21	21	20	37	42	34	43	30	32	38	26	47	38	30	36	32	20	22	20	23	..	..	..	30.1
Lovelaceville	Maximum	40	33	40	34	45	54	65	75	44	34	47	56	54	48	55	54	46	54	51	60	54	48	47	49	45	40	38	32	..	..	..	48.0
	Minimum	27	17	27	28	18	33	34	44	24	17	21	33	44	32	41	24	24	34	32	44	33	26	30	25	19	19	25	25	..	..	..	28.6
Mayfield	Maximum	38	34	42	41	47	50	68	73	48	34	48	54	55	54	60	56	41	54	54	61	60	52	49	50	48	39	40	35	..	..	..	49.8
	Minimum	27	20	27	31	19	36	35	46	26	19	21	35	43	30	40	27	29	35	36	45	34	27	30	26	20	19	29	24	..	..	..	29.9
Murray	Maximum	40	35	45	38	38	50	70	77	47	32	49	60	51	51	61	55	40	54	57	65	58	57	47	48	44	35	38	31	..	..	..	49.1
	Minimum	29	18	27	28	17	35	40	47	27	20	18	32	39	30	40	28	29	36	30	45	33	25	32	28	20	18	24	25	..	..	..	29.3
Owensboro	Maximum	35	31	37	36	33	40	52	72	52	32	45	52	56	48	58	52	42	42	55	62	62	43	45	42	40	32	36	34	..	..	..	45.4
	Minimum	26	17	25	26	19	26	33	50	25	15	20	36	37	30	36	26	29	36	38	43	32	26	28	25	14	22	26	22	..	..	..	28.0
Paducah	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	37	37	42	37	43	57	68	73	47	30	50	61	55	50	61	50	47	52	55	64	58	51	46	47	43	42	36	34	..	..	..	49.1
	Minimum	26	18	27	30	18	34	36	47	27	19	20	36	40	30	40	27	30	36	35	45	36	26	32	27	18	19	26	27	..	..	..	29.7
Russellville§§	Maximum	39	34	46	36	42	50	69	75	50	24	47	55	50	52	58	52	41	51	56	69	57	59	42	45	39	38	36	31	..	..	..	47.7
	Minimum	29	11	19	25	16	20	39	44	27	21	21	30	35	29	41	28	22	29	29	41	38	31	36	32	21	23	31	28	..	..	..	28.4
Central Division.																																	
Anchorage	Maximum	38	34	38	41	38	49	47	78	54	39	41	57	58	49	57	48	48	46	58	62	59	47	38	42	35	37	31	39	..	..	..	46.4
	Minimum	23	15	20	25	16	32	30	46	33	18	14	32	35	30	32	30	18	33	31	46	51	31	25	29	14	21	18	22	..	..	..	26.8
Bowling Green	Maximum	45	36	39	40	41	53	65	75	60	43	46	58	53	51	60	57	46	46	57	65	50	50	57	48	44	44	46	36	..	..	..	50.6
	Minimum	35	19	26	32	21	32	44	60	31	23	19	30	36	30	40	30	30	37	31	44	39	27	35	30	22	20	26	28	..	..	..	31.3
Danville	Maximum	42	33	40	38	36	55	55	74	54	30	48	58	58	53	58	56	45	44	60	63	62	45	42	43	41	38	35	35	..	..	..	48.8
	Minimum	28	16	22	30	17	27	36	40	29	22	13	28	32	29	34	29	20	37	28	41	34	24	32	33	16	19	20	24	..	..	..	27.1
Dix Dam	Maximum	42	33	38	38	35	55	68	73	69	34	44	57	58	50	56	55	42	42	60	62	52	46	45	45	40	38	38	31	..	..	..	48.3
	Minimum	32	18	22	32	20	32	37	52	31	23	16	24	32	34	38	32	25	38	32	45	36	26	34	31	18	22	24	19	..	..	..	29.5
Eubank	Maximum	57	54	44	51	47	44	64	69	51	59	54	56	57	56	58	54	42	47	57	64	54	50	39	43	46	46	38	40	..	..	..	51.8
	Minimum	31	16	20	29	26	18	39	39	35	20	14	36	36	27	26	26	12	30	28	40	31	22	29	29	30	24	21	30	..	..	..	27.8
Frankfort	Maximum	41	33	36	36	35	52	49	73	58	31	43	56	57	52	59	58	41	46	59	63	61	47	41	44	40	39	34	42	..	..	..	47.0
	Minimum	29	17	21	32	19	31	33	44	30	21	17	34	30	30	35	30	21	36	30	45	34	26	30	27	16	22	20	28	..	..	..	28.1
Glasgow	Maximum	45	34	42	40	39	47	67	75	63	50	44	55	56	55	60	55	56	65	58	68	58	57	45	46	40	40	40	35	..	..	..	51.8
	Minimum	32	18	23	26	26	32	43	60	40	24	16	34	32	29	50	28	30	31	40	42	32	24	33	30	19	16	23	28	..	..	..	30.8
Greensburg	Maximum	47	34	43	43	41	49	69	76	54	35	46	59	59	54	58	56	43	45	61	66	64	48	45	46	44	42	39	39	..	..	..	50.9
	Minimum	30	25	21	31	17	28	41	41	28	20	18	30	27	28	36	28	27	35	28	42	35	24	31	29	17	18	20	23	..	..	..	27.6
Irvington	Maximum	38	32	36	36	37	52	53	78	49	38	44	55	58	50	57	53	44	45	57	64	52	46	42	43	38	37	34	36	..	..	..	46.4
	Minimum	29	17	25	26	19	35	34	49	28	18	20	35	41	32	37	28	28	35	36	46	34	27	30	27	16	23	23	26	..	..	..	29.5
Leitchfield	Maximum	39	37	35	35	39	50	64	74	48	31	45	58	52	49	60	58	40	45	58	65	61	46	42	42	39	38	39	36	..	..	..	47.3
	Minimum	30	17	24	27	17	34	36	48	28	19	16	33	40	30	37	27	28	35	33	44	34	25	32	25	15	20	26	33	..	..	..	28.8
Lexington	Maximum	39	32	37	34	34	53	56	74	50	27	42	55	57	42	56	56	43	42	60	61	61	43	34	42	25	36	33	36	..	..	..	44.8
	Minimum	21	15	19	21	20	31	33	50	26	17	18	32	36	24	34	28	18	38	34	43	28	25	30	25	15	21	21	20	..	..	..	26.7
Louisville	Maximum	33	32	35	35	35	50	65	73	42	26	43	55	53	46	56	54	42	46	58	63	59	44	35	42	26	35	33	38	..	..	..	44.1
	Minimum	21	16	22	21	18	32	31	42	26	16	19	38	36	32	34	30	27	38	36	44	28	26	26	22	13	23	27	29	..	..	..	27.6
Mammoth Cave	Maximum	40	35	40	38	37	46	64	74	51	31	44	52	54	50	57	51	42	42	56	66	58	48	44	45	41	40	34	31	..	..	..	46.9
	Minimum	30	11	22	25	15	34	29	50	29	20	11	34	38	28	37	27	28	36	34	43	35	25	31	27	17	14	20	26	..	..	..	28.0
St. John	Maximum	52	55	42	36	35	65	58	71	63	56	50	54	52	52	56	47	42	44	49	59	58	56	41	44	34	39	34	35	..	..	..	49.9
	Minimum	28	17	28	21	18	33	34	34	32	30	18	35	33	31	31	28	26	34	34	36	32	26	31	25	11	21	24	25	..	..	..	27.5
Shelbyville	Maximum	37	28	35	30	32	50	45	70	70	31	40	58	52	49	55	50	42	44	57	60	58	42	40	40	36	36	31	38	..	..	..	44.7
	Minimum	28	27	26	26	18	31	32	43	28	18	17	32	35	30	32	29	31	35	33	44	32	25	27	23	14	20	22	26	..	..	..	27.8
Stearns	Maximum	46	35	44	40	38	48	61	72	42	27	43	57	54	45	55	54	41	42	55	63	60	45	44	44	25	37	37	37	..	..	..	45.3
	Minimum	31	15	24	33	16	34	50	60	30	22	20	30	36	30	40	17	23	35	32	45	35	21	32	30	19	21	21	21	..	..	..	29.4
Taylorsville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	28	29	32	32	31	49	43	72	72	34	38	50	53	53	51	51	35	42	55	53	51	39	39	35	35	29	30	34	..	..	..	42.9
	Minimum	26	26	18	26	18	29	30	37	28	18	14	32	38	29	32	28	25	31	32	43	34	24	26	21	13	20	22	25	..	..	..	26.6
Eastern Division.																																	
Ashland	Maximum	50	32	45	41	36	50	47	77	70	43	41	60	59	55	46	46	43	46	60	55	71	49	41	42	41	34	34	39	..	..	..	48.3
	Minimum	31	22	21	30	23	24	38	37	35	23	15	29	30	31	38	32	25	31	33	40	39	29	32	31	18	18	24	30	..	..	..	28.2
Berea	Maximum	49	34	41	40	36	52	65	75	70	53	43	58	59	55	55	52	44	47	61	65	64	45	42	44	40	40	38	36	..	..	..	49.2
	Minimum	30	17	20	33	18	30	41	62	33	23	13	31	40	29	36	29	21	37	33	44	25	25	32	32	17	20	22	21	..	..	..	29.1
Cumberland	Maximum	45	34	38	46	49	71	73	74	40	44	59	58	58	56	58	57	50	58	64	67	65	47	40	39	38	37	35	..	..	..	..	52.1
	Minimum	29	19	19	28	21	33	35	44	35	23	12	33	40	32	32	28	24	33	28	37	27	28	30	31	19	23	27	23	..	..	..	28.4
Farmers	Maximum	40	37	38	38	34	51	48	76	76	47	45	60	60	52	54	52	41	43	65	63	73	46	41	48	42	38	34	41	..	..	..	49.2
	Minimum	25	22	24	28	20	21	31	40	30	20	19	31	23	27	30	27	25	28	27	41	33	24	30	29	15	17	24	24	..	..	..	26.4
Heidelberg	Maximum	51	40	42	39	40	59	52	76	74	39	44	58	59	56	55	54	44	44	63	57	67	45	40	46	42	40	35	40	..	..	..	49.6
	Minimum	34	20	18	32	23	25	42	46	33	21	11	23	24	30	34	32	25	37	30	43	39	27	33	33	22	24	18	28	..	..	..	28.8
Livingston	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Maysville	Maximum	41	38	37	36	32	49	37	75	66	30	42	54	55	57	51	51	38	44	62	54	69	41	45	40	38	30	35	38	..	..	..	46.7
	Minimum	28	18	17	29	19	26	28	37	30	21	14	26	29	28	30	28	12	29	29	41	33	24	28	26	18	19	22	25	..	..	..	25.3
Middlesboro	Maximum	53	47	45	47	43	39	59	72	70	65	60	58	54	52	55	55	58	48	53	..	62	55	51	45	44	39	38	35	..	..	..	*51.6
	Minimum	42	20	21	35	22	26	38	56	35	25	14	24	29	31	38	30	27	37	27	..	38	27	33	32	23	18	20	27	..	..	..	*29.4
Mount Sterling	Maximum	52	28	40	36	35	52	57	75	67	32	35	55	50	50	55	45	42	43	63	57	68	44	37	38	36	35	30	35	..	..	..	46.5
	Minimum	26	17	19	17	20	27	33	50	30	21	14	30	28	28	31	29	14	35	30	43	32	24	32	30	22	21	18	20	..	..	..	26.5
Pikeville	Maximum	53	41	46	41	41	54	53	78	73	38	45	60	62	56	58	48	48	47	64	64	73	48	44	46	46	34	36	38	..	..	..	51.0
	Minimum	37	23	16	30	23	25	39	47	34	24	14	28	26	33	34	31	29	32	34	42	41	29	29	32	19	15	15	28	..	..	..	28.9
Pippapass	Maximum	51	37	46	40	37	55	55	77	76	37	42	59	60	64	58	66	44	44	63	45	46	..	43	44	38	37	37	40	..	..	..	51.0
	Minimum	25	18	18	27	20	22	40	48	32	20	13	21	22	29	34	28	23	29	27	28	25	..	30	29	18	18	16	23	..	..	..	27.6
Quicksand	Maximum	50	42	34	42	35	43	52	63	76	35	28	43	58	50	50	55	34	48	44	64	64	62	45	38	42	28	40	36	..	..	..	*49.6
	Minimum	34	20	21	34	19	28	40	68	31	21	16	27	32	30	27	29	25	34	29	41	37	25	32	31	21	17	21	25	..	..	..	*25.8
Richmond	Maximum	50	42	34	42	35	43	52	63	76	35	28	43	58	50	50	55	34	48	44	64	64	62	45	38	42	28	40	36	..	..	..	46.5
	Minimum	30	17	18	32	18	30	38	40	33	22	15	32	40	30	34	32	24	35	34	44	47	24	34	30	17	20	23	27	..	..	..	29.3
Williamsburg	Maximum	56	36	45	44	39	42	66	75	70	42	40	60	58	54	62	57	43	46	56	64	66	47	49	45	40	39	39	35	..	..	..	50.8
	Minimum	34	20	21	34	19	28	40	68	31	21	16	27	32	30	27	29	25	34	29	41	37	25	32	31	21	17	21	25	..	..	..	29.1

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs [illegible] etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville 3-25-37 1100

1.05
KE
42
3

Nat. Wea.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., MARCH, 1937 No. 3

GENERAL SUMMARY.

From the standpoint of growth and spring work the prevailing cold weather was decidedly unfavorable. Warm weather in the first decade caused winter grains to make some growth, and advanced fruit buds too far in the extreme southern counties. Peaches were damaged to some extent in that section later in the month. After this period of warmth temperatures generally below normal, with frequent hard freezes at night, prevented any marked advancement of vegetation. The cold weather was favorable for fruit in the northern districts, where buds remained sufficiently dormant to be safe.

The low temperature and the frequent freezes delayed the drying of the soil, but drainage improved slowly because of the light precipitation. Plowing was resumed and potato planting commenced toward the end of the second week, when the soil became dry enough to be worked. Continued cold weather retarded the work, so that normal progress failed of accomplishment. Most tobacco plantbeds were sown early in the month, but the work was not completed until near the end. Because of the cold and impossibility of growth, there was a tendency to delay all planting until late in the month. This condition so affected seeding to clover and lespedeza, that the work was two to three weeks behind. Early sowings of these plants were killed by the severe freezes of the second decade.

The general improvement in soil drainage favored winter grains, which showed no injury of consequence from the freezes. The soil soon became dry enough that the lifting effect of the freezes was slight or absent. Also, the deeply rooted and stocky plants resisted unusually well. Except for fields that had been overflowed, wheat, rye and barley improved slowly.

The month ended with all spring preparations in a backward condition and vegetation behind its usual stage; but the upland soils were generally workable and progress was increasing. Except in the most favored localities, pastures had made no growth of importance.

TEMPERATURE.

A week of relatively warm weather, with daily excesses of 4° to 16°, occurred early in the month. There were a few days with moderate temperature in the week following the 18th. The remainder of the month was decidedly cold. Daily deficiencies in the periods, 1st, 13-17th, and 26-29th were 10° to 20°. The range for the State was between 77° on the 20th at Quicksand and 6° on the 1st at Cumberland.

PRECIPITATION.

In most districts along the Ohio River precipitation was less than one inch. It increased southward to about 1.5 inches in the central counties and 2.0 inches at some southern stations. The average for the State was less than one-third of the seasonal amount. Moderate to heavy precipitation, largely snow, occurred in the period 13-14th. Light to moderate rain, irregularly distributed, was reported on the 4-5th and 24-25th. Scattered precipitation occurred in the periods 1st-2d, 8-14th, and 17th-21st. The frequency of precipitation was high, but the daily amounts were usually small. Stations in some extreme northern counties reported 4.0 to 8.0 inches of snow. In the central and most southern counties the snowfall ranged from 0.5 to 1.5 inches. The heaviest snow fell in the period 13-14th. For the State precipitation ranged between 2.51 inches at Jackson and 0.45 inch at Carrollton. Days with thunderstorms were: 19, 20, 23, 24, 25.

MISCELLANEOUS.

March 25.—A tornado in Fayette and Clark counties caused damage estimated at $150,000. Five persons died as a result of the storm and 23 others were injured. The storm began at Athens, Fayette County and moved nearly east through the southern edge of Winchester to a point about five miles beyond that city. Its path was 100 to 200 yards wide and approximately 15 miles long. About an hour after this storm, a violent wind wrecked several buildings at Victory, Laurel County.

Rivers.—The remnants of the Ohio Valley flood drained off the lowlands of the extreme western counties during the first week. The Ohio remained above pool stage and was easily affected by the comparatively light precipitation.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.10	30.36	26	29.44	24	10.7	29	sw.	24	81	62	63	62
Cincinnati .....Ohio	30.09	30.43	22	29.40	24	8.6	28	sw.	20	83	58	64	56
Evansville.....Ind.	30.10	30.40	21	29.45	24	9.7	35	sw.	24	72	52	58	49
Louisville .....Ky.	30.10	30.41	22	29.42	24	11.0	39	sw.	25	78	60	69	56

COMPARATIVE DATA FOR MARCH.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation. Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	40.5	84	18	1.52	....	..	..	..	..
1890	41.2	78	4	8.54	....	..	..	..	..
1891	41.8	71	9	8.08	....	..	..	..	..
1892	40.6	82	7	4.08	....	..	..	..	..
1893	45.0	89	5	2.76	....	..	..	..	..
1894	50.8	86	10	2.72	....	..	..	..	..
1895	45.0	88	15	3.17	....	9	13	7	10
1896	41.1	80	8	6.16	....	12	9	9	13
1897	49.6	86	20	7.94	6.2	14	8	9	14
1898	50.7	84	16	7.59	1.0	13	8	9	14
1899	43.9	80	− 3	8.10	2.4	15	8	10	13
1900	42.8	81	− 3	2.58	3.9	9	11	8	12
1901	46.4	87	3	3.50	0.5	10	9	7	15
1902	47.2	82	7	4.44	6.1	11	10	9	12
1903	52.5	85	19	4.43	T.	12	9	7	15
1904	47.7	88	12	6.26	0.5	12	8	8	15
1905	52.2	86	22	4.45	T.	9	15	6	10
1906	39.2	75	3	6.37	2.0	16	6	5	20
1907	54.9	92	18	2.28	0.8	10	13	6	12
1908	51.8	88	19	5.42	0.7	13	10	7	14
1909	44.8	74	17	5.14	T.	11	11	7	13
1910	55.0	91	11	0.79	0.3	3	18	7	6
1911	46.0	87	7	2.57	0.6	9	14	5	12
1912	41.3	88	10	6.22	6.6	15	9	3	19
1913	46.5	85	9	7.22	0.5	10	12	7	12
1914	41.8	78	2	3.62	6.4	12	10	6	15
1915	37.8	65	11	2.11	3.8	8	12	5	14
1916	43.5	84	4	3.39	3.7	10	12	8	11
1917	45.9	84	0	6.52	8.1	14	13	6	12
1918	51.6	85	17	1.97	T.	8	15	7	9
1919	47.6	81	16	5.65	T.	9	15	6	10
1920	46.3	88	− 1	4.85	0.6	10	15	6	10
1921	50.7	87	19	5.75	T.	11	13	9	9
1922	49.4	83	19	8.11	0.5	14	9	6	16
1923	45.6	80	8	5.27	T	9	15	7	9
1924	41.5	81	14	3.05	1.8	9	9	5	17
1925	49.2	84	4	3.59	0.4	9	16	7	8
1926	40.2	84	4	2.80	2.3	11	12	6	13
1927	48.4	82	10	6.04	3.5	11	12	7	12
1928	45.6	85	12	2.64	2.7	8	12	8	11
1929	52.0	94	9	4.17	1.2	10	13	8	10
1930	44.5	76	9	2.17	1.2	9	15	7	9
1931	41.4	73	24	3.66	1.9	17	7	7	17
1932	41.2	80	3	4.55	1.5	10	11	8	12
1933	46.0	78	10	5.52	T	11	7	12	12
1934	43.6	80	5	4.83	2.1	13	12	7	12
1935	54.6	86	20	9.56	0.3	14	9	8	14
1936	50.7	81	19	4.85	3.2	11	14	8	9
1937	42.2	77	6	1.43	2.3	7	14	7	10
Period	46.2	94	− 3	4.67	1.8	11	12	7	12

48-year averages.

Natural History Survey

Climatological Data for March, 1937.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall										1.66		0.60		4					Tennessee Valley Authority.
Calhoun	McLean	437	33	45.4	−3.0	72	24	28	15	38	1.45	−3.02	0.51	T.	5	8	20	8	ne.	W. A. Taylor.
Earlington	Hopkins	420	47	44.6	−2.8	72	6†	24	17	38	1.05	−3.53	0.40		6	12	8	11	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8								0.91		0.33	0.5	5					Lockmaster.
Greenville	Muhlenburg	519	20	42.2	−5.1	72	6	20	16†	37	1.63	−2.76	0.54	1.5	7	16	12	3	n.	C. R. Lovell.
Henderson	Henderson	382	28	41.6		70	6	23	11†	31	1.27	−4.14	0.32	1.1	8	10	14	7	n.	Frank Street.
Hopkinsville	Christian	524	41	44.6	−4.2	75	6	21	1†	37	1.70	−3.17	0.50		6	17	9	5	se.	W. E. Graves.
Lovelaceville	Ballard		8	43.0		71	23	22	15	35	1.80		0.50	1.0	5	15	8	8	n.	Blaine Malone.
Mayfield	Graves	364	28	43.9	−5.8	78	23	23	15†	35	1.13	−2.90	0.34		6	13	12	6	n.	Mrs. Joe Payne.
Murray	Calloway	412	11																	Harry B. Arnold
Owensboro	Daviess	479	40	41.8	−4.7	71	24	22	15	37	0.69	−3.58	0.29	T.	4	18	4	9	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4								0.67	−3.10	0.21	T.	6					Lockmaster.
Paducah **	McCracken	516	20								1.38	−3.13	0.52	0.5	6	11	6	14		Joe Lagore.
Princeton	Caldwell	529	30	44.0	−3.7	73	24	24	15†	38	1.47	−2.63	0.36	0.5	7	9	11	11	nw.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	20								1.19	−3.31	0.50	2.0	6					Lockmaster.
Russellville	Logan	590	26	42.8	−4.3	71	6†	22[b]	27	32[b]	1.89	−2.88	0.78		6	16	4	11	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9								0.72	−3.21	0.24		6					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								0.90	−3.06	0.28		8					Lockmaster.
Anchorage	Jefferson	700	36	37.6	−6.8	71	7	14	1†	39	1.20	−3.06	0.55	7.0	4					C. E. Barret.
Bowling Green	Warren	500	48	46.1	−2.3	74	6	24	17	35	1.97	−3.13	0.95	1.5	6	16	6	9	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20								2.16	−3.07	1.15	0.5	9					Lockmaster.
Burnside	Pulaski	705	46								1.69	−3.52	0.48	1.0	9					T. A. Lewis
Carrollton, Lock 1	Carroll	480	38								0.45	−3.37	0.28		3					Lockmaster.
Cold Spring, Dam 36	Campbell	489	11								1.30	−2.25	0.27	8.0	8					Lockmaster.
Danville	Boyle	540	4	42.1		72	24	17	17	37	1.69	−2.22	0.55	1.5	8	8	6	17	s.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	43.2		70	6†	20	17	35	1.79	−1.91	0.80		7	14	9	8	s.	C. W. Williams.
Eadsville	Wayne	622									1.18		0.50	2.0	5					Lockmaster.
Eubank	Pulaski	1177	43	41.6	−4.1	68	24	11	1	36	0.59	−4.12	0.18	0.7	6	8	7	16	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	41.1	−5.0	72	7	15	1†	39	1.14	−3.24	0.82	4.0	5	13	7	11	sw.	Lockmaster.
Gest, Lock 3	Henry	490	26								1.69	−2.87	0.65	3.3	9					Lockmaster.
Glasgow	Barren	780	11	42.1	−5.1	75	24	21	17	28	1.28	−4.51	0.50		4	23	2	6	n.	R. L. Beatty.
Grant, Dam 38	Boone	780	12								1.23	−1.79	0.40	6.5	8					Lockmaster.
Greensburg	Green	581	44	42.6	−3.6	72	6†	16	1	44	1.65	−3.42	0.51	1.0	9	4	2	24	sw.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35								1.33	−2.97	0.69		8					Lockmaster.
Irvington	Breckinridge	646	39	42.7	−4.1	71	7	18	15	33	1.19	−3.28	0.67	2.0	5	17	3	11	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11								1.68	−3.17	0.62		9					Walter Killion.
Leitchfield	Grayson	635	41	42.4	−3.7	71	24	21	17†	33	1.48	−2.94	0.52	0.5	8	12	10	9	nw.	H. H. Willis.
Lexington	Fayette	989	53	39.5	−4.2	70	7	17	1	32	1.59	−2.78	0.84	1.0	9	12	10	9		U. S. Weather Bureau
Little Hickman, Lock 8¶	Jessamine	560	26								2.08	−2.28	0.84	1.0	7					Lockmaster.
Lockport, Lock 2	Henry	485	27								0.68	−3.76	0.32	6.5	3					Lockmaster.
Louisville	Jefferson	459	64	41.6	−3.8	70	24	21	11	28	0.76	−3.63	0.30	3.8	7	12	10	9	n.	U. S. Weather Bureau.
Mammoth Cave	Edmonson			41.7		71	6†	15	17	40	2.03		0.60	0.3	10	11	12	8	se.	Ivan J. Ellsworth.
St. Jonn	Hardin	777	41	42.4	−2.6	71	26	21	17	39	1.33	−3.31	0.72		5	18	9	4		Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23								1.42	−2.76	0.80		5					Lockmaster.
Shelbyville	Shelby	825	48	39.9	−4.7	70	7	16	17	34	1.96	−2.79	0.88	5.5	10	12	0	19	n.	Miss RuthRatta,
Shepherdsville	Bullitt	500									0.63		0.31	1.0	6	17	7	7	sw.	A. McLeod.
Stearns	McCreary	1400		39.0		64	24	20	1†	23	1.42		0.45	0.8	8	9	5	17	sw.	Geo. Wright
Taylorsville	Spencer	489	35																	Elizabeth J. Bourne.
Tyrone, Lock 5¶	Anderson	524	19								1.27	−2.88	0.70	1.2	11					Lockmaster.
Williamstown	Grant	943	34	38.4	−5.3	67	24†	14	11	35	1.21	−2.83	0.70		7	18	8	5	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	20								1.59	−3.05	0.84	0.3	7					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								1.72		0.68	1.0	7	10	7	14	sw.	W. A. Worthington.
Ashland	Boyd	534	18	42.0	−3.6	71	24	21	27	33	1.85	−2.47	0.65	4.0	11	11	7	13	w.	Lockmaster.
Barboorville	Knox	1050									1.49		0.82		5	21	0	10		Mrs. Ralph Tuggle.
Berea	Madison	1070	32	43.0	−3.6	72	7	20	10†	33	1.50	−3.49	0.45	0.5	10	10	5	16	w.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	27								1.00	−3.59	0.45	0.5	8					Lockmaster.
Cumberland	Harlan	1440		42.3		73	20	6	1	40	2.88		0.80	1.0	7	22	4	5	w.	C. Bertrand Fields,
Cynthiana	Harrison	684	19								0.65	−3.55	0.40		3					P. H. Kehoe.
Falmouth	Pendleton	600	48								1.12	−2.97	0.42	6.5	10					J. V. Oldham.
Farmers	Rowan	668	29	41.1	−3.9	73[a]	20	11[a]	1	42[a]	1.31	−3.16	0.65		4	11	11	9	e.	Mrs. R. F. Stamper.
Fleningsburg	Fleming	841	12								1.45	−2.88	0.79		5					C. A. Classcock
Ford, Lock 10¶	Clark	637	21								1.75		0.71		7					Lockmaster.
Greenup, Dam 30	Greenup	1197	9								1.22	−2.46	0.62	5.5	9					Lockmaster.
Hazard	Perry	869	13								2.10	−2.10	0.75		6					Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	41.8		72	20	8	1	38	2.05	−2.70	1.05	2.0	8	8	5	18	sw.	Lockmaster.
Jackson	Breathitt	540	17								2.51		0.83	2.5	7					Jas. T Goff.
Jenkins	Letcher	776									1.82	−2.93	0.55		9					A. Hayard,
Livingston	Rockcastle	960																		B. H. Griffin.
Louisa	Lawrence	584	33								1.47	−2.76	0.82		4					Lockmaster.
Maysville	Mason	524	17	39.6	−4.7	71	7†	16	1	40	1.39	−2.85	0.62	8.5	9	7	13	11	s.	Lockmaster.
Middlesboro	Bell	1128	40	45.7	−2.2	71[a]	23	9[a]	1	41[a]	2.14	−4.10	0.79	7.0	5	14	14	3		Matthew Woodson
Mount Sterling	Montgomery	930	41	40.4	−3.4	73	6	15	1	41	1.70	−3.39	1.50		2	11	13	7	nw.	W. R. McKee.
Oneida	Clay		17								1.96		0.59	5.0	6					Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	10								0.68	−3.13	0.20	9.5	8					Lockmaster.
Paintsville	Johnson	567	8								1.72		0.87	0.5	7					Manuel Robinson.
Pikeville	Pike	636	31																	U. S Weather Bureau.
Pippapass	Knott	1035	3	41.9		71	23	13	1	37	1.74		0.62	0.9	10	10	7	14		Ceney Run Com. Ceu.
Quicksand	Breathitt	732	11	41.6	−3.6	77	20	10	10	49	1.42	−4.45	0.72	T.	4					R. W. Jones.
Ravenna, Lock 12	Estill	631	19								0.96	−3.00	0.35		6					Lockmaster.
Richmond	Madison	926	46	41.6	−4.0	70	31	18	1	32	1.70	−2.69	0.75		8	15	0	16		J. W. Crooke.
Valley View, Lock 9	Madison	571	24								1.66	−3.02	0.70	0.5	6					Lockmaster.
Vanceburg, Dam 32	Lewis	525	22								0.64	−4.00	0.40	4.0	8					Lockmaster.
Williamsburg	Whitley	939	38	44.0	−3.0	75	20	14	1	43	1.68	−2.97	0.58		6	16	3	12		John W. Stephens.
Willow Lock 13	Lee	646	20								1.42	−2.88	0.80	0.5	6					Lockmaster.
State averages and extremes				42.2	−4.0	77	20	6	1	49	1.43	−3.24	1.50	2.3	7	14	7	10	n.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

T Precipitation is less than 0.01 inch rain or melted snow

§Lone Oak.

¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for March, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.				.16				.40						.60												.50						1.66
Calhoun G.	T			.23	T.								.51	.27					.17					.27	T.	T.					1.46
Earlington G.				.25	.01								.29	.40					.05						.05							1.05
Ferris Ferry Dam 50 O.	T.	T.			.17							T	.20	T.	T.			.02	1	.13				.32	T.	T.	T.	T.				0.91
Greenville G.	.10			.25				.08					.20	.54				T.	.11					.35							1.63
Henderson O.				.19	.02								.24	.30				.05	.12	.03				.82				T.	T.		1.27
Hopkinsville C.				.26		.10			T.				.20	.50					.19					.49							1.70
Lovelaceville M.				.30			.20						.50						.30					.50							1.80
Mayfield M.				.34			.18						.15	.25					.11					.07							1.13
Murray T.																																
Owensboro O.	T.			.15					T.				.05	.29	T				T.					.20		T.		T.			0.69
Owensboro, Dam 46 O.					.19			T.	T.	T.	T.		.01	.17				.08	T.	.01				.21		T.	T.				0.67
Paducah O.					.25			.07					.01	.52	T.			T.		.14				.39			T				1.38
Princeton G.				.36			.08				.04		.25	.35				.01	.07	T.				.85	T.	T.					1.47
Ramsey, Lock No. 2 G.	.50				.18			T.					T.	.15				.04		.12				.26			T.				1.19
Russellville G.	.30				.14			.21						.78						.10				.36							1.89
Uniontown, Dam 49 O.					.10								.04	.24	T.			.02		.07				.24		T.	T.	T.			0.72
Central Division																																
Addison, Dam 45 O.	T.	.10			.28			T	T.				.03	.15				.02	.02	.02	T.			.27							0.90
Anchorage O.					.13								.23	.55			T	T.		T.				.29							1.20
Bowling Green G.					.18			.14					T.	.95	.15			T.		.15				.40	T.						1.87
Brownsville, Lock No. 6 G.					.30			.08					.11	1.15	.05			.04		.04				.37	.02						2.16
Burnside C.					.09			.18	.02				.09	.47	.09			.06						.21	.48			T				1.69
Carrollton (Lock No. 1) K.										.04				.25										.18							0.45
Cold Spring, Dam 36 O.					.15				T.	T.	.20		.14	.27	T.			T.	.02		.26			.15	.11	T.	T.				1.20
Danville K.				.12	.06			T.		T.			.38	.55	.23			.06						.19	.10	T.					1.69
Dix Dam, Burgin K.				.20								.07	.80	.05			.10						.16	.43							1.79
Eadsville C.	.10						.10							.50				.02						.46							1.18
Eubank C.	.03	.02						.08							.18									.18	.10		T				0.69
Frankfort K.					.13					T.	T.		.03	.82	T.		T.	.04	T.		T.			.12	T.	T.	T.	T.			1.14
Gest, Lock No. 3 K.					.65					.20	.04			.46				.04			.08			.17	.03		.02				1.69
Glasgow G.				.18			.10								.50									.50							1.28
Grant, Dam 33 O.					.08			T.	.02		.14		.22	.40				.05	T.	T.				.27	.05						1.23
Greensburg G.				.20	.05			.05	T.				.40	.51	.17			.07		.02				.18							1.65
High Bridge, Lock No. 7 K.					.20					T.	T.		.03	.69	.09			.08		.01				.05	.18		T				1.33
Irvington O.	T.			.21				T.					T.	.67				.04	T.	.08				.19	T.	T.	T.				1.19
Lancaster K.				.18			.04					.22	.62	.24			.07		.02				.07	.22							1.68
Leitchfield G.	.02			.27	.03								.16	.52				.08	.03	T				.37	T.						1.48
Lexington *** K.				.17				T.	.01	.03			.84	.13				.08	.02	T.				.30	.01	T.	T.	T.			1.59
Little Hickman, Lock No. 8 K.					.20								.06	.84	.10			.08						.10	.70						2.08
Lockport, Lock No. 2 K.					.26					.10				.32										T.	T.						0.68
LOUISVILLE*** O.	T.			.17				T	T.	.01		T.	.29	.01		T	T.	.01	T.	.01				.26	T.	T.					0.76
Mammoth Cave G.				.26	.03		T.	.06	T.				.31	.21	.60			.08	.02	T.				.45	.01						2.03
St. John S.				.18									T	.72				.03		.05				.35		T					1.38
Salvisa, Lock No 6 K.					.20					T.			T.	.60				.10		T.				.16	.16						1.42
Shelbyville S.				.22	.14			T.		.03			.08	.88				.05		.14				.33	.07	.02					1.96
Shepherdsville S.				.09	.05								.05	.10				.03						.31							0.63
Stearns				.02			.27	.02			.02		.45	.15				.12						T.	.37							1.42
Taylorsville S.																																
Tyrone, Lock No. 5 K.					.10				.02	.03	.02		.02	.70	T.			.06	.03	.03	T.			.04	.20	T.	.02					1.27
Williamstown L.				.11	.06				.02	.06			.16	.70										.10								1.21
Woodbury, Lock No. 4 G.					.21			.08					.03	.84	.03					.04				.36								1.59
Eastern Division																																
Annville					.08			.16					.02	.68	.12			.08							.58							1.72
Ashland					.22				.50	.01	T.	.01	.05	.65	.16			.01	.02	.01	T.				.21							1.85
Barbourville G.					.03			.24						.82				.10							.30							1.49
Berea K.				.14	.12			.08	T.				.36	.45	.07			.06		.02				.19	.01						1.50
College Hill, Lock No. 11 K.					.22			.05	T.				.08	.45	.03			.05		.03				T.	.09						1.00
Cumberland C.								.42					.21		.80	.21		.16		T.				.26	.82						2.08
Cynthiana L.					.20									.40										.05	T.						0.65
Falmouth L.					.17				T.	T.	.07		.10	.42	.01			.01	.01	.03	T.			.23	.07						1.12
Farmers L.					.25									.31	.10									T.	.65						1.31
Flemingsburg L.					.30						.02				.79							.20				.16					1.46
Ford, Lock No. 10 K.					.23			.02	T.	T.	T.		.03	.68	.03			.05	T.	T.	T.			T.	.71		T		T.			1.75
Greenup, Dam 30 O.					.21				.02				.07	.52	.12			.02	.02		.18				.06							1.22
Hazard K.	.35					.20								.75	.10	.05									.65		T.			T		2.10
Heidelberg, Lock No. 14 K.	T	.10			.19			.05		T.		T.	.38	1.05	.12			.06	T.					.15								2.05
Jackson K.					.57			.11	T.				.42	.83	.25					.18				.15	T.							2.51
Jenkins B.					.23			.11		T.				.55	.40	.02		T.	.04		.09				.36			.02				1.82
Livingston C.																																
Louisa B.					.30								.10	.82										.25								1.47
Maysville O.					.35				T.	.15	.04		.04	.62	.03			T.	.02		.06				.08							1.39
Middlesboro C.			.70											.79				.14						.46	.05							2.14
Mount Sterling L.				.20					T.				T.		T.			T.		T.			T	1.50	T.							1.70
Oneida C.					.08			.20						.52	.50				.07					.59								1.88
Oneonta Dam 35 O.					.16				.01		.10		.08	.08	T.	T.		.02	.03		T.			T.	.20							0.68
Paintsville B.					.19			.01		.03			.28	.87	.21	T.									.07							1.73
Pikeville B.																																
Pippapass K.				.05	.16			.20	T.				.10	.62	.08	.01		.01		T.				.06	.45	T						1.7
Quicksand K.					.27			.11				.32		.72	T											.09							1.5
Ravenna, Lock No. 12 K.	T.				.18			.09	T.	T.			.20	.35	.05			T	T.	T.					.09		T.					0.9
Richmond K.					.25			.10					.15	.75	.15			.10		.10					.10							1.7
Valley View, Lock No. 9 K.					.20				T.		T.		.05	.70	.04			.12							.55							1.4
Vanceburg, Dam No. 32 O.					.40						.02		.02	.05	.05			.01			.03				.06							0.6
Williamsburg B.				T.				.27						.58	.13			.09							.33	.28						1.4
Willow, Lock No. 13 K.					.22			.05	T.					.80	.05			.10								.20		T.				1.4

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. ¶ Lone Oak.

Daily Temperatures for March, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	36	57	66	60	55	70	70	64	45	55	52	56	50	32	32	38	52	52	58	62	54	54	70	72	66	36	33	46	52	54	57	53.4
	Minimum	32	36	43	45	42	48	48	44	32	33	32	35	30	32	28	31	32	43	35	44	37	43	46	52	33	32	30	32	33	40	38	37.5
Earlington	Maximum	38	59	66	60	60	72	70	63	45	57	52	57	54	35	34	40	54	58	61	63	61	63	71	72	68	35	33	45	50	54	56	54.9
	Minimum	26	25	39	44	37	38	38	43	30	25	28	30	30	27	25	26	24	47	43	54	36	32	33	55	50	28	26	30	28	38	32	34.4
Greenville	Maximum	36	60	68	59	60	72	70	60	45	58	50	56	50	33	34	39	54	52	60	64	51	62	69	71	48	54	32	44	49	55	56	53.9
	Minimum	24	24	28	43	33	33	36	41	28	23	26	30	33	26	23	20	20	42	29	47	31	30	36	48	39	26	24	27	22	35	29	30.5
Henderson	Maximum	36	52	62	50	58	70	68	56	40	50	50	52	40	30	30	39	50	50	54	56	52	62	66	68	58	36	34	45	53	54	57	50.9
	Minimum	28	26	34	45	37	40	42	41	33	26	28	27	28	26	23	26	25	41	33	42	35	32	35	50	31	27	24	26	26	36	35	32.3
Hopkinsville	Maximum	41	64	69	63	68	76	72	59	52	60	61	64	60	38	38	43	55	56	59	60	60	60	71	72	67	36	44	48	51	57	59	56.6
	Minimum	21	28	32	41	30	33	39	35	31	30	21	28	30	26	25	24	26	41	33	46	36	36	42	55	33	28	29	26	28	36	32	32.7
Lovelaceville	Maximum	41	57	62	59	60	68	67	54	47	61	55	57	53	36	36	43	53	57	58	61	54	62	71	70	64	34	35	41	48	53	56	54 0
	Minimum	24	25	30	48	37	33	34	41	28	26	27	33	32	25	22	24	23	45	33	48	29	31	36	53	34	28	25	29	24	36	33	32.0
Mayfield	Maximum	42	57	60	57	58	62	62	53	50	52	56	60	58	42	36	41	52	76	56	58	55	63	73	70	66	35	36	43	48	56	58	54.6
	Minimum	26	30	37	43	33	39	40	42	27	29	29	35	32	21	23	25	26	44	35	45	33	35	38	55	32	28	26	28	27	37	34	33.3
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Murray	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	35	55	64	62	52	58	68	60	42	50	48	54	54	34	30	35	52	52	58	62	54	68	68	71	68	36	38	45	50	54	55	52.3
Owensboro	Minimum	26	24	24	40	33	36	40	40	28	28	30	32	34	25	22	26	23	39	30	43	31	34	36	50	31	25	24	27	26	36	31	31.3
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Paducah	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	40	60	67	55	60	72	70	54	46	59	56	60	51	33	37	43	57	56	60	62	58	66	72	78	62	35	36	45	52	56	58	55.2
Princeton	Minimum	26	25	30	38	40	34	36	43	28	26	27	35	32	26	24	24	24	45	33	44	34	34	39	54	33	29	26	28	27	39	34	32.8
	Maximum	37	59	65	49	59	71	65	47	41	57	51	60	39	32	32	40	56	60	62	65	53	61	69	71	53	37	34	44	51	54	58	52.6
Russellville§§	Minimum	27	25	30	33	36	38	39	43	29	25	28	31	38	..	..	28	23	34	31	51	37	34	37	45	49	28	22	27	30	42	38	33.0
Central Division.																																	
Anchorage	Maximum	33	49	61	59	56	70	71	57	36	36	46	56	40	39	37	35	46	52	58	67	54	58	64	69	57	37	36	46	37	35	48	49.8
	Minimum	14	17	27	32	31	31	35	25	20	18	19	22	27	25	18	15	14	29	26	40	37	30	34	34	34	25	19	24	19	20	25	25.4
Bowling Green	Maximum	39	60	67	58	60	74	70	60	56	56	63	54	53	47	46	44	55	58	64	68	57	65	73	74	68	39	39	48	55	66	68	58.0
	Minimum	29	26	31	38	36	39	40	44	28	29	36	36	34	29	25	26	24	42	33	50	35	38	50	53	35	29	26	30	29	39	36	34.2
Danville	Maximum	36	58	64	60	56	70	70	63	59	50	49	57	54	38	36	32	50	55	60	69	57	62	65	72	67	37	34	43	50	55	55	54.2
	Minimum	28	21	27	36	38	35	36	48	27	19	28	30	34	26	22	20	17	35	28	50	36	28	34	42	35	26	21	27	22	32	32	30 0
Dix Dam	Maximum	36	54	63	61	56	70	69	60	52	50	48	56	55	50	25	32	50	53	62	60	59	59	67	70	70	38	32	45	54	58	57	54 2
	Minimum	28	22	29	36	40	35	34	46	31	22	25	40	36	32	25	25	20	38	30	50	40	30	37	48	38	23	28	30	25	34	31	32.3
Eubank	Maximum	35	54	64	59	61	59	64	59	47	52	54	50	50	43	40	35	50	53	63	67	57	58	63	68	60	43	47	51	54	59	57	54.1
	Minimum	11	13	35	34	34	36	31	42	36	20	26	28	30	26	22	19	18	17	38	47	24	34	34	36	35	25	29	29	30	31	28	29.1
Frankfort	Maximum	34	54	62	55	58	71	72	63	48	55	46	55	50	37	35	38	46	54	61	68	56	57	62	71	67	37	35	40	55	56	58	58.0
	Minimum	15	20	26	26	34	32	36	44	29	22	20	27	31	26	23	20	15	34	28	52	39	30	34	46	35	26	21	29	23	32	29	29.2
Glasgow	Maximum	35	50	58	55	45	40	50	58	50	55	50	58	38	38	41	50	55	60	69	55	60	58	75	65	45	41	45	48	50	55	51	51.5
	Minimum	28	22	28	35	30	35	42	42	24	30	27	35	35	30	23	26	21	30	38	50	35	40	45	50	45	28	24	22	28	35	30	32.7
Greensburg	Maximum	36	57	56	60	59	72	69	61	47	53	51	60	54	44	34	39	54	56	68	68	57	68	70	72	60	37	35	46	55	57	59	55.6
	Minimum	16	17	25	30	35	28	42	41	28	22	25	28	34	27	22	21	18	39	26	52	37	25	29	50	34	27	22	28	20	32	32	29.7
Irvington	Maximum	38	55	62	57	57	68	71	63	42	47	49	55	48	35	35	38	49	50	60	64	54	59	66	70	66	35	33	46	52	52	39	52.0
	Minimum	26	25	31	45	48	48	41	42	28	28	24	30	29	27	18	28	24	41	31	44	36	35	37	52	38	26	20	29	25	36	34	33.4
Leitchfield	Maximum	39	57	60	57	57	68	69	61	44	51	47	57	51	33	32	36	51	50	61	67	51	60	68	71	66	33	32	44	52	53	57	52.7
	Minimum	24	24	32	41	33	38	41	41	29	27	24	32	33	26	23	25	21	41	32	45	37	34	37	50	33	21	24	26	26	37	36	32.2
Lexington	Maximum	32	51	62	56	56	69	70	52	35	41	48	55	39	31	29	31	45	53	61	67	52	58	65	70	54	21	33	45	52	56	56	50.2
	Minimum	17	21	31	38	35	36	40	32	22	21	21	29	30	26	23	20	19	33	29	39	34	32	36	45	27	22	20	27	28	33	31	28.8
Louisville	Maximum	34	53	62	53	57	70	69	57	36	46	47	53	38	35	32	34	48	50	62	65	52	58	63	70	59	34	33	46	53	51	55	50.5
	Minimum	27	28	35	42	39	44	49	36	26	25	21	31	28	27	22	25	25	41	37	40	38	35	40	48	31	24	22	29	29	36	37	32.8
Mammoth Cave	Maximum	32	50	64	55	52	71	68	60	44	55	51	52	52	33	35	40	52	56	55	58	53	54	71	71	61	41	40	45	52	54	57	52.6
	Minimum	24	21	25	41	37	33	35	42	28	21	23	26	34	25	23	23	15	40	26	48	36	29	31	52	38	21	23	25	21	38	32	29.8
St. John	Maximum	45	56	61	50	59	71	67	57	41	49	47	56	53	44	38	38	49	52	65	63	59	59	64	69	66	34	40	51	51	51	56	53.9
	Minimum	26	28	29	39	37	32	36	40	28	24	24	29	29	27	26	24	21	37	35	26	31	33	45	50	32	26	26	23	29	34	30	30 8
Shelbyville	Maximum	34	51	59	58	55	67	70	63	48	35	44	51	43	34	32	34	46	51	56	63	49	55	59	68	66	32	31	44	50	58	54	50.2
	Minimum	19	19	30	39	33	35	40	41	27	22	19	29	29	25	19	18	16	37	30	49	37	34	35	45	32	24	21	27	24	32	31	29.6
Stearns	Maximum	31	29	45	54	47	50	58	62	46	33	50	56	52	38	29	25	31	48	47	61	55	45	56	64	61	38	28	28	36	46	46	45.0
	Minimum	20	20	32	37	40	32	38	46	30	24	27	36	30	31	25	22	20	38	37	58	36	31	34	51	51	27	22	27	22	34	37	33.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Taylorsville	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	80	46	57	57	52	65	64	64	47	28	41	50	50	31	30	31	40	45	56	52	48	50	58	67	67	35	31	41	50	50	55	48.0
Williamstown	Minimum	19	23	32	43	32	36	39	40	22	20	14	28	30	23	19	15	18	35	32	38	36	34	32	42	32	22	20	25	28	30	31	28.9
Eastern Division.																																	
Ashland	Maximum	44	57	58	60	54	66	68	67	49	31	45	56	62	33	38	44	49	53	62	67	52	56	55	71	59	38	32	44	53	55	59	52.8
	Minimum	28	32	28	38	39	33	35	45	27	22	27	32	32	29	27	28	28	33	24	45	40	30	30	42	38	30	27	32	44	52	56	54.4
Berea	Maximum	40	54	65	62	57	70	72	67	48	48	48	57	57	38	31	32	48	54	64	71	54	60	67	70	66	37	32	44	52	56	58	54.4
	Minimum	21	24	24	43	39	37	43	45	29	25	30	34	34	28	24	23	20	36	32	53	37	29	35	50	36	26	20	29	22	34	32	31.6
Cumberland	Maximum	29	50	58	60	57	66	69	50	50	51	53	61	59	49	41	40	51	48	66	73	71	69	71	63	64	51	39	55	52	54	57	55.7
	Minimum	6	20	24	24	40	28	31	30	25	20	31	34	34	30	22	19	19	35	36	52	31	29	29	42	49	29	22	23	21	29	37	28.9
Farmers	Maximum	40	54	65	69	56	69	72	68	43	36	48	56	57	38	..	35	49	58	64	73	58	68	64	71	70	41	36	46	54	60	58	§55.4
	Minimum	11	20	30	25	36	26	36	42	26	19	24	24	31	27	..	24	16	29	22	44	32	25	25	42	36	23	16	27	17	24	27	§26.8
Heidelberg	Maximum	35	54	65	57	58	69	70	65	51	47	57	54	55	32	32	28	28	18	30	31	42	40	28	29	38	40	29	23	30	19	29	34 29.6
	Minimum	8	18	24	28	41	28	32	46	30	20	30	31	35	32	28	28	18	30	31	42	40	28	29	38	40	29	23	30	19	29	34	
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Livingston	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	37	50	61	56	56	69	71	64	46	29	45	52	50	35	34	35	48	51	59	70	55	58	62	71	63	35	32	45	51	56	56	51.7
Maysville	Minimum	16	24	24	30	36	29	32	40	24	19	19	22	31	25	23	23	21	17	33	28	48	36	28	27	49	33	22	20	26	20	25	27.4
Middlesboro	Maximum	36	47	60	60	60	70	68	68	60	55	61	65	..	59	54	49	55	50	69	69	69	67	71	70	65	59	54	48	58	54	61	59.6
	Minimum	9	15	26	28	43	29	31	46	30	24	28	26	19	38	35	56	40	29	30	42	40	30	42	40	31	26	29	22	30	36	31	31.7
Mount Sterling	Maximum	30	52	62	55	58	73	70	55	41	34	44	55	50	35	33	30	48	53	62	71	51	35	70	59	57	36	40	44	52	57	57	51.2
	Minimum	15	40	25	32	37	32	35	42	24	20	21	26	31	26	21	21	19	33	27	50	32	28	32	32	35	32	30	32	22	30	35	29.6
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	85	52	54	46	53	61	65	65	45	50	50	54	54	38	33	32	58	50	60	68	69	65	71	65	65	47	40	40	50	51	54	52.7
Pippapass	Minimum	13	23	27	31	39	32	35	45	31	21	32	32	34	31	28	26	21	33	26	47	40	28	29	37	46	29	21	28	28	29	37	31.1
	Maximum	34	52	65	61	57	76	71	57	43	49	43	60	56	36	36	34	49	50	66	77	66	64	71	68	67	46	41	44	57	60	59	55.6
Quicksand	Minimum	12	20	22	26	38	27	30	38	20	10	20	30	32	29	26	28	18	28	22	42	38	25	27	36	42	27	20	29	18	27	32	27.6
	Maximum	40	35	43	65	55	56	65	70	54	35	36	52	58	38	35	35	54	58	54	65	70	45	85	70	70	58	34	34	34	50	60	50.6
Richmond	Minimum	18	22	33	42	37	36	45	46	30	20	25	32	35	28	25	20	22	38	34	54	38	32	35	42	50	27	20	27	24	38	40	32.5
	Maximum	35	55	64	62	60	70	72	55	55	54	55	63	40	44	33	39	55	51	69	75	65	69	74	65	67	43	41	42	56	55	59	56.2
Williamsburg	Minimum	14	18	28	41	30	30	49	41	28	25	31	35	35	31	26	24	19	38	35	53	33	37	31	42	38	30	21	28	24	33	36	31.7

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville. 4-25-37. 1100

THE LIBRARY OF THE
MAY 1937
UNIVERSITY OF ILLINOIS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., APRIL, 1937 No. 4

GENERAL SUMMARY.

While the temperature averaged near normal and the rainfall was not far from normal in most sections, the extended spells of showery and cool weather rendered conditions less favorable than desirable. Unseasonably low temperature early in the month, when the soil was in good working order discouraged planting. Later on, when temperatures were above normal and suitable for planting, the persistent showers interfered so seriously with the work in most districts that seasonal progress could not be made. Winter grains and pastures on the warmer soils developed very well, but other vegetation remained backward. The cool weather delayed the blooming of fruit trees and held back a considerable proportion of buds, which survived the moderate freezes of the second week. Earlier blossoms, especially in central and southern districts, suffered damage from these freezes.

Tobacco plants came up in rather straggling fashion during the cool weather. While they made some gains in the warm week from the 17th to the 24th, they remained from ten days to two weeks behind their usual stage at the end of the month.

The dry weather of the first half in the western counties favored drainage of the bottom lands and early preparation for corn. Rains in the eastern counties in the second week and in western districts in the third week benefited plantbeds and aided in conditioning the soil. Rain almost every day in the last week stopped corn planting and other farm activities in most of the State. These rains were heavy to excessive in the western half of the State, where flooding of low bottoms began. In the northeastern counties the rainfall was much lighter and corn planting continued at intervals. Most cotton planting had been done before these rains stopped the work. On the limestone uplands plowing was practically completed ahead of the rains, but much remained to be done in the regions with colder and heavier soils.

Late seedings of clover and lespedeza, replacing that killed by the freezes, were favored by the showery weather, which insured good stands and quick early growth. Potatoes were planted before the rains and were coming up generally late in the month, but wet soil prevented preliminary cultivation at the proper time in most districts.

TEMPERATURE.

Two days of normal temperature at the beginning were followed by a warm period of similar length. During the succeeding week temperatures ranged from 5° to 13° below normal. A decade of warm weather, with one brief cool interval, occurred between the 13th and 24th, followed by unseasonably low temperatures nearly to the end. The highest for the State was 91° on the 17th at Henderson and on the 23d at Pikeville and Quicksand. The lowest was 22° on the 12th at Farmers.

PRECIPITATION.

Precipitation averaged only slightly above normal, but occurred with remarkable frequency. There were but few days on which rain in measurable amounts was not reported. Moderate rains occurred generally in the period 4-6th, 8-9th, 14-17th, 21st-22d, and 24-29th. Local showers were interspersed between these rainy spells. The rains were heavy in many localities on the 5th, 15th, 21st, 24th, and 30th. No snow was reported. The areal distribution of the rainfall was fairly uniform. In the western counties and from the bluegrass region eastward far into the mountain section, the total rainfall was 4.0 to 6.0 inches. A few extreme northern counties, and some south central and southeastern districts, received from 2.5 to 4.0 inches. For the State precipitation ranged between 2.51 inches at Grant, Boone County, and 6.25 inches at Paducah. Days with thunderstorms were: 4, 5, 13, 14, 15, 18, 20, 23, 24, 28, 29, 30.

MISCELLANEOUS.

Rivers.—The Ohio declined slowly during the first week, after which it rose irregularly. At the end of the month the river was rising rapidly. In the upper and middle courses, but remained considerably below flood stage along the border of the State.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.91	30.43	11	29.45	21	10.7	30	sw.	14	76	58	59	60
Cincinnati .....Ohio	29.94	30.50	12	29.41	21	9.0	30	sw.	1	75	53	60	50
Evansville.....Ind.	29.93	30.47	12	29.42	21	10.5	38	sw.	24	70	55	59	52
Louisville .....Ky.	29.96	30.50	12	29.44	21	11.3	35	s.	21	73	62	66	49

COMPARATIVE DATA FOR APRIL.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	57.0	89	24	1.61	....	..	..	..	..
1890	57.0	92	28	4.04	....	..	..	..	.
1891	58.0	92	24	2.52	....	..	.	..	..
1892	56.0	88	22	7.12	....	..	..	..	..
1893	58.0	94	21	6.59	....	..	..	..	..
1894	56.0	94	23	3.54	....	..	..	..	..
1895	57.2	94	22	3.18	....	9	13	8	9
1896	63.6	96	24	1.65	....	6	13	12	5
1897	55.5	90	25	6.03	T.	11	11	9	10
1898	52.4	86	19	3.38	1.1	9	12	8	10
1899	57.2	96	20	3.16	0.3	9	13	8	9
1900	56.2	90	15	2.15	T.	8	14	8	8
1901	50.9	91	23	4.01	2.6	10	11	5	14
1902	54.2	93	22	2.65	0.1	9	14	9	7
1903	55.4	90	22	4.43	T.	12	10	7	13
1904	50.8	85	16	2.83	1.7	11	10	7	13
1905	56.7	91	23	3.00	0.2	9	12	8	10
1906	59.5	94	23	1.40	0.0	6	17	7	6
1907	48.2	87	19	2.78	0.2	11	10	8	15
1908	59.8	89	23	6.56	0.8	14	12	6	12
1909	56.1	96	21	5.98	T.	10	14	7	9
1910	55.4	88	23	5.14	0.7	14	12	6	12
1911	53.8	90	20	7.06	T.	14	11	5	14
1912	58.4	87	25	7.10	T.	12	11	7	12
1913	55.3	89	27	2.73	T.	10	14	5	11
1914	55.7	91	13	3.62	T.	10	11	8	11
1915	60.1	96	17	0.96	0.0	5	17	8	5
1916	54.0	89	23	2.64	1.4	9	11	8	11
1917	55.8	90	19	5.02	0.8	8	14	7	9
1918	53.9	87	25	4.07	0.3	12	8	8	14
1919	56.7	89	19	3.51	0.0	10	13	7	10
1920	50.8	89	22	6.16	0.2	13	9	8	13
1921	58.2	90	22	4.09	T.	10	15	7	8
1922	59.5	88	25	4.25	0.0	10	14	8	8
1923	54.8	90	13	4.88	0.0	9	15	6	9
1924	57.4	93	19	3.41	0.1	10	13	7	10
1925	61.2	98	23	3.16	0 0	10	14	7	9
1926	51.6	87	16	3.17	T.	10	13	7	10
1927	53.7	92	22	6.59	T.	15	10	8	12
1928	52.9	83	21	4.20	0.6	11	11	9	10
1929	60.1	90	23	3.57	0.0	10	14	8	8
1930	58.9	94	21	1.31	0.0	6	16	8	6
1931	55.9	89	25	4 52	0.1	8	15	6	9
1932	56.4	86	25	3.88	T.	10	13	6	11
1933	55.7	87	27	4.74	0.0	13	14	7	9
1934	56.9	90	24	2.16	T.	8	13	10	7
1935	55.3	92	24	4.42	T.	12	10	6	14
1936	53.1	90	19	4.79	0.1	11	11	8	11
1937	56.9	91	22	4.38	0.0	12	11	8	11
Period	56.1	98	13	3.97	0.3	10	13	7	10

†49-year averages.

Climatological Data for April, 1937.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, inmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall	....	....	....	....	....	....	....	....	....	5.47	.....	1.32	0	10	....	....	.....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	33	59.0	+ 0.6	87	17	37	10	28	4.85	+0.62	1.20	0	14	3	23	4	sw.	W. A. Taylor.
Earlington	Hopkins	420	47	58.2	+ 0.4	88	17	29	10	36	4.92	+0.82	1.08	0	16	15	6	9	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	6.02	..	1.54	0	16	....	....	....	....	Lockmaster.
Greenville	Muhlenburg	519	20	56.6	− 0.8	87	23	27	7	36	4.56	+0.20	1.05	0	9	10	11	9	s.	C. R. Lovell.
Henderson	Henderson	382	28	55.9	.....	91	17	29	10	41	4.10	+0.60	0.72	0	15	9	17	4	w.	Frank Street.
Hopkinsville	Christian	524	41	57.4	− 0.2	88	17	29	10	39	4.73	+0.42	1.06	0	15	13	16	1	n.	W. K. Morris.
Lovelaceville	Ballard	....	8	57.0	.....	85	17	31	2†	37	5.65	. .	1.20	0	10	10	12	8	s.	Blaine Malone.
Mayfield	Graves	364	28	57.8	− 0.5	85	17	33	10	34	4.44	+0.18	1.40	0	12	10	15	5	s.	Mrs. Joe Payne.
Murray	Calloway	412	11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Harry B. Arnold
Owensboro	Daviess	479	40	55.3	− 0.4	85	17†	30	7	33	4.06	+0.10	0.85	0	14	12	2	16	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4	....	....	....	....	....	....	....	3.45	− 0.03	0.82	0	16	....	....	....	....	Lockmaster.
Paducah **	McCracken	516	20	58.2	− 1.0	86	17	31	7†	34	6.25	+1.83	1.54	0	15	12	3	15	.....	Joe Lagore.
Princeton	Caldwell	529	30	58.2	0.0	89	17	30	7†	41	5.31	+0.93	0.80	0	17	8	12	10	s.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	20	....	....	....	....	....	....	....	4.15	+0.01	1.05	0	18	....	....	....	.....	Lockmaster.
Russellville	Logan	590	26	[d]57.7	+ 0.3	86[d]	17	30[d]	7	41[d]	4.30	−0.30	0.73	0	12	12	4	14	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	4.56	+1.11	1.03	0	17	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	2.83	−0.81	0.59	0	15	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	36	[b]54.2	+ 0.4	84[b]	17†	23[b]	10	44[b]	4.83	+1.03	1.03	0	10	13	5	10	se.	C. E. Barret.
Bowling Green	Warren	500	48	59.9	+ 1.4	89	23	32	7	34	4.36	+0.05	1.02	0	13	12	10	8	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20	....	....	....	....	....	....	....	2.61	−1.75	0.58	0	16	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	3.47	−0.73	0.68	0	12	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	38	....	....	....	....	....	....	....	3.33	−0.32	1.30	0	7	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	11	....	....	....	....	....	....	....	2.96	−0.70	0.63	0	12	....	....	....	.....	Lockmaster.
Danville	Boyle	540	4	55.4	.....	86	18	27	1†	48	3.90	+0.07	0.72	0	15	10	5	15	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	57.1	+ 0.3	85	17	28	12	48	3.92	+0.82	1.30	0	11	10	6	14	nw.	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	4.43	....	1.02	0	11	....	....	....	.....	Lockmaster.
Eubank	Pulaski	1177	43	56.0	+ 1.4	83	23	25	12	43	3.15	−0.79	0.80	0	6	6	9	15	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	55.2	− 0.5	84	23	27	12	43	4.24	+0.48	1.17	0	10	12	7	11	w.	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	4.52	+1.06	1.30	0	11	....	....	....	.....	Lockmaster.
Glasgow	Barren	780	11	58.2	.....	85	19†	28	1†	36	5.45	+1.16	2.40	0	7	19	4	7	s.	R. L. Beatty.
Grant, Dam 38	Boone	780	12	....	....	....	....	....	....	....	2.51	−0.83	0.47	0	9	..	....	....	.....	Lockmaster.
Greensburg	Green	581	44	56.1	+ 0.6	87	23	25	12	40	2.74	−1.15	0.67	0	10	4	4	22	sw.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	3.76	+0.25	1.15	0	11	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	39	56.2	0.0	83	17†	32	7†	30	3.66	−0.30	1.40	0	10	10	8	12	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	....	....	....	0	....	....	....	....	.....	Walter Killion.
Leitchfield	Grayson	635	41	55.8	− 0.1	84	17	30	7†	41	4.14	−0.22	0.84	0	15	6	16	8	sw.	H. H. Willis.
Lexington	Fayette	989	53	54.0	− 0.3	82	17	29	12	38	5.32	+1.82	1.16	0	14	14	6	10	.....	U. S. Weather Bureau.
LittleHickman, Lock 8¶	Jessamine	560	26	....	....	....	....	....	....	....	3.90	+0.60	0.88	0	10	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	5.67	+1.94	1.39	0	10	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	64	55.3	− 1.1	84	23	35	10	38	4.06	+0.18	0.99	0	12	7	10	13	sw.	U. S. Weather Bureau.
Mammoth Cave	Edmonson	....	....	[a]54.8	.....	86[a]	4	25[a]	12	42[a]	4.59	.....	0.84	0	13	9	15	6	se.	Ivan J. Ellsworth.
St. Joms	Hardin	777	41	54.7	0.0	82	17†	29	10†	35	3.96	−0.28	0.86	5	12	13	2	10	....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23	....	....	....	....	....	....	....	4.16	+0.50	1.40	0	10	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	48	54.2	− 0.4	82	23	30	10[a]	35	5.25	+1.34	1.61	0	12	6	1	23	n.	Miss RuthRatta,
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	4.12	.....	1.03	0	13	8	7	15	sw.	A. McLeod.
Stearns	McCreary	1400	....	55.7	.....	86	4†	28	12	35	3.63	.....	0.74	0	12	8	4	18	sw.	Geo Wright
Taylorsville	Spencer	489	35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Elizabeth J. Bourne.
Tyrone, Lock 5¶	Anderson	524	19	....	....	....	....	....	....	....	4.84	+0.85	1.40	0	12	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	34	52.5	− 1.0	83	18	28	11	40	4.94	+1.50	1.20	0	12	16	5	9	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	604	20	....	....	....	....	....	....	....	3.95	−0.17	0.68	0	15	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	3.61	.....	0.95	0	12	9	9	12	sw.	W. A. Worthington.
Ashland	Boyd	534	18	53.8	− 1.8	88	23	27	12	31	2.56	−1.04	0.47	0	14	11	9	10	nw.	Lockmaster.
Barbourville	Knox	1050	....	....	....	....	....	....	....	....	3.18	.....	0.85	0	9	....	....	.	.....	Mrs. Ralph Tuggle.
Berea	Madison	1070	32	[a]56.8	+ 1.0	88[a]	23	29[a]	12	44[a]	5.68	+2.03	1.42	0	15	14	4	12	w.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	27	....	....	....	....	....	....	....	4.50	+1.28	1.25	0	11	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	....	56.0	.....	90	23	26	1	50	2.83	.....	0.75	0	8	17	3	10	w.	C. Bertrand Fields,
Cynthiana	Harrison	684	19	....	....	....	....	....	....	....	5.00	+1.84	2.00	0	8	....	....	....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	48	....	....	....	....	....	....	....	4.01	+0.33	1.84	0	13	....	....	....	.....	J. V. Oldham
Farmers	Rowan	668	29	[a]53.6	− 0.9	83[a]	18	22[a]	12	44[a]	5.17	+1.47	1.28	0	8	9	12	9	e.	Mrs. F. Stamper.
Flemingsburg	Fleming	841	12	....	....	....	....	....	....	....	4.57	+0.68	1.19	0	10	....	....	....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	637	21	....	....	....	....	....	....	....	5.30	+2.05	1.49	0	11	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Greenup	1197	9	....	....	....	....	....	....	....	2.92	−0.57	0.53	0	12	....	....	....	.....	Lockmaster.
Hazard	Perry	869	13	....	....	....	....	....	....	....	3.73	+0.44	0.55	0	8	....	....	....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	53.8	....	86	23	25	12	41	5.28	+1.96	1.35	0	13	9	4	17	sw.	Lockmaster.
Jackson	Breathitt	840	17	....	....	....	....	....	....	....	5.54	.....	1.40	0	11	....	....	....	.....	Jas. T Goff.
Jenkins	Letcher	776	....	....	....	....	....	....	....	....	3.63	−0.21	0.72	0	11	....	....	....	.....	R. J. Howard,
Livingston	Rockcastle	950	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	B. H. Griffin.
Louisa	Lawrence	584	33	....	....	....	....	....	....	....	3.43	+0.09	0.93	0	8	....	....	....	.....	Lockmaster.
Maysville	Mason	524	17	53.5	− 0.8	85	23	24	12	43	4.22	+0.65	1.09	0	12	7	12	11	sw.	Lockmaster.
Middlesboro	Bell	1128	40	....	....	....	....	26	12	....	3.48	−1.00	0.70	0	11	....	....	....	.....	Matthew Woodson
Mount Sterling	Montgomery	980	41	53.6	− 0.3	86	23	25	12	38	5.63	+1.57	1.10	0	8	13	10	7	w.	W. R. McKee.
Onelda	Clay	....	47	....	....	....	....	....	....	....	4.43	....	0.93	0	9	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	10	....	....	....	....	....	....	....	2.89	−1.14	0.68	0	12	....	....	....	.....	Lockmaster.
Paintsville	Johnson	567	3	....	....	....	....	....	....	....	5.08	.....	1.49	0	14	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	31	58.0	.....	91	23	29	1†	40	3.88	+0.30	1.08	0	13	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	3	55.4	.....	89	18	27	12	53	3.82	.....	0.82	0	12	10	7	13	.....	Caney Run Com. Cen.
Quicksand	Breathitt	732	11	55.2	− 1.6	91	23	23	12	54	5.90	+1.67	1.40	0	10	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	5.18	+2.07	1.13	0	13	....	....	....	.....	Lockmaster.
Richmond	Madison	926	46	55.5	− 0.6	82	18†	30	10	32	5.20	+1.61	1.50	0	11	13	0	17	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	24	....	....	....	....	....	....	....	4.84	+1.56	1.32	0	9	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	3.43	−0.31	0.53	0	12	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	38	58.6	+ 2.0	88	18†	28	12	44	4.58	+0.33	1.30	0	12	16	6	8	.....	John W. Stephens.
Willow Lock 13	Lee	646	20	....	....	....	....	....	....	....	5.47	+2.70	1.35	0	12	....	..	....	.....	Lockmaster.
State averages and extremes		....	....	55.9	− 0.2	91	17†	22	12	54	4.38	+0.40	2.00	0	12	11	8	11	sw.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, *, [b], [a], appearing in the table indicate number of days missing; for example, t represents two days, etc.

T Precipitation is less than 0.01 inch rain or melted snow

§Lone Oak.

* Also on other dates. †† Received too late to be included in means and summaries

¶Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for April, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.		.05		.37	.88	.30									.61						.28	.19		1.33					1.13	1.32		5.47
Calhoun G.	.03			.66	.52	T.		.30		T.	.07			.07	.27					.13	.61			.74	T		.06	.07	T	1.71	.20		4.85
Earlington G.		.45		.20	.89	.07		.31	.04					.02	.10						.10			.88				.04	.04	.26	1.08		4.24
Fords Ferry Dam 50‖ O.		.03			1.54	.14		.19	.15		T.			T.	.10						.08			.77	.30		1.18	.02	.04	.10	.02	.03	1.58		6.02
Greenville G.				.70	.20			.40							.26						.85			1.05		T	.10	T	.20	.80			4.56
Henderson O.	.08			.72	.49	T.		.31			.02	T.		.02	.03				.05	T	.37	.63	T.		.52		.14	.06	.02	T.	.64		4.10
Hopkinsville O.	.02			.60	.13	.02		.17						.10	.08	.52	T.			.12	.04	.41			1.03		.02			.61	1.06		4.73
Lovelaceville M.				.55	.81			.62							.25					.32		.69	.70			.55			.45	1.20		5.67
Mayfield M.	T.			.52	.55			.49					.04	.06					.19	.31	.20		T	.60		T.			.05	.03	1.40		4.44
Murray T.																																
Owensboro O.				.85	.07			.10	.20		T.			.04	.14	T.				.04	.60	.63		.60		.14	.03		.16	.46		4.06
Owensboro, Dam 46 ‖ O.		.07		.82	.02		T.	.21			T.		.01	.02	.09					.01	.48	.57		.27	.41	.09	T.	.08	.03	.25		3.45
Paducah O.		.04		.10	1.12	.18		.48	.08					T.	.41					.26	1.20	.30		.43			T.		.60	1.54		6.25
Princeton G.	.06			.73	.75			.35					.01	.02	.40				.20		.42	.46		.75	.01	.06	.02	.07	.20	.80		5.31
Rumsey, Lock No. 2 ‖ G.		.05			1.05	.04		.06	.20		.05			.02	.18					.04		.20	.42		.40	.29	.04	.06	.05	.10	.99		4.15
Russellville‖ G.					.45	.08		.03	.40					.09	.67					.02		.25	.30		.73					.47	.72		4.50
Uniontown, Dam 49‖ O.		.06			.81	.15		.08	.10					.04	.05					.07		.80	.47		1.03	.06	.02	.14	.02	.04	.61		4.56
Central Division																																
Addison, Dam 45. ‖ O.		.02			.50	.04			.17		.02		.02		.25					T.		.20	.59		.32	.22	.03	T.	.06	.43	.01		2.83
Anchorage O.				.27	.28			.44					T.	.85							T.	.85			.85		.18	.04		1.03	.04		4.83
Bowling Green G.					.51	.40		T.	.10					.15	.55							.10	.42		.45	.28		.05	.03	1.02	.39		4.89
Brownsville, Lock No. 6‖ G.		.02			.40			.01	.13					.11	.01					.01		.08	.58		.29	.28	.02	.09	.08	.24	.29		2.61
Burnside‖ O.				.10	1.12	.18		.11	.24					.19	.62						.26	1.20	.30			.43		T.	.60	1.54		6.25
Carrollton ‖ (Lock No. 1) K.					.42				.36						.66	.02						.39				.45		.14	.11	.02	T.		3.47
Cold Spring, Dam 36‖ O.		.02			.89	.03			.30						.28					.03		.25	.29			.63	T.	.30	.11	.27			3.23
Danville K.		T.		.09	.06	.22		.20	.18				.06	.59	.63	.06						.62	.02		.12		.02	.26		.72			2.56
Dix Dam, Burgin ‖‖ K.				.12	.22			.40					.03	.73	.03							.51			.37		.10	.05	1.36				3.90
Eadsville ‖ K.					1.02				.37					.17	.40	.17							.66			.38	.13	.08	.73	.12			3.52
Eubank C.					.10	.30									.80								.60			.65			.70				4.43
Frankfort‖ K.		T.			.29	.14		T	.43						.73	T.			T.		.04	.60			.59	T.	.20	0	1.17				3.15
Gest, Lock No. 3 ‖ K.					.35	.14			.48						.78	.06					.13	.65			.42	T.	.37	.14	1.26				4.24
Glasgow G.					.53										.64						.57			2.40		.06			.64	.6			4.82
Grant, Dam 33‖ O.		T.			.47	T.			.32						.29						.40	.14		T.	.17	T.	.15	.16	.41	T			5.45
Greensburg G.					.19		.22		.22					.16	.63	.67											.02	.05	.10	.48				2.51
High Bridge, Lock No. 7 ‖ K.		T.			.12	.12			.50				T.	T.	.87	.03			T.		T	.48			.34	.02	.10	.03	1.15				2.71
Irvington O.	T.			.31	.35			.34	T	T.			T.	.11	.17			T	T.	T	1.40			.28	T.	.06	T.	T.	.42	.22			3.76
Lancaster‖ K.																																3.66
Leitchfield G.	.02			.42	.64			.21	.02		T.		T.	.12	.31					.06	.84			.52		.10	.11	.07	.23	.45		4.14
Lexington *** K.	T.			.17	.21			.43	.03						1.16	.19				.03	.01	T	.34			1.00		.28	.03	.45	.98		5.32
Little Hickman, Lock No. 8 ‖ K.						.30			.32					.05	.83	.06							.68			.48		.26	.10	.88			3.50
Lockport, Lock No. 2 ‖ K.		T.			.30	.15			.50					.11	.82	.15						T.	.92			.98		T.	.35	1.30			5.67
LOUISVILLE*** O.	.01			.28	.49			.43				T.	T.	.76	T.				T.		.42	.57			.63		.05	.07	.15	.20	T.		4.06
Mammoth Cave G.	.04	T.		.12	.84			.16			T.	T.	.06	.09	.81					.04	.59			.59		.03	T.	T.	.70	.52		4.59
St. John S.		T.			.51	.35		.04	.17		T.				.25						T.	.22	.77		.04	.86	T.	.13		.57	.05		3.66
Salvisa, Lock No 6 ‖ K.		T.			.28	.18		T	.40			T.	T.	1.40								.15	.44			.15	T	.15	.14	.87			4.16
Shelbyville S.		T.			.26	19	.02		.52		T.			.99							T.	.15	.76			.56	.08	.26	.11	1.61			5.25
Shepherdsville S.				.05	.90	.05		.25	.12		.03			.67	.17							.18			1.03		.02	.11		.53			4.12
Stearns T.					T.	.40		.03	.25					.09	.74	.36							.70			.14		.10	.03	.31	.42		3.63
Taylorsville S.																																
Tyrone, Lock No. 5‖ K.					.28	.15		T.	.54					T.	1.40	.10				.05		.05				.52	.05	.26	.20	1.30			4.84
Williamstown L.				.40	.18			.40							.60	.27				.02		.15	.67			1.20		.40	.20	.56			4.94
Woodbury, Lock No. 4‖ G.		T.			.52	.03		.04	.22					.07	.41					.08		.18	.35		.40	.35		.03	.07	.68	.52		3.95
Eastern Division																																
Annville					.02	.12		.10	.27					.30	.60	.20						.95			.44		.22	.11	.28	T.		3.61
Ashland ‖ O.		T.			.19	.01			.43	.02					.47	.18				.01		.06	.34			.20	.01	.20	.17	.27			2.56
Barbourville C.					.46			.15						.72	.13									.85	.23				.07	.27	.26		3.18
Berea K.		T.		.03	.09	.41			.62					.50	.61	.57				.10		.82	.08		.40	.43	.12	.08	T.	1.42			5.68
College Hill, Lock No. 11 ‖ K.					.06	.26				.48				.07	.88						.08		.60			.60		.33	.04	1.25	T.		4.50
Cumberland C.					.30										.75							.21	.25		.09		.07		.47			2.83
Cynthiana ‖ L.					.21				.41						.81	T.				T		T.	.41			2.00		.20	.15	.81			5.00
Falmouth ‖ L.		T.			.28	.06		T.	.31						.49	.20				T.		.08	.57		.01	1.34		.02	.20	.11	.34			4.01
Farmers ‖ K.					.24	.15			.56						.81								.80			.83			.50	1.28			5.17
Flemingsburg‖ L.					.21	.29			.59	.36					.67								.39			1.19	.16		.13	.55			4.57
Ford, Lock No. 10 ‖ K.		T			.15	.30			.44				.01	T.	.49	.06				T.		T	.68			.61		.26	.07	1.28			5.50
Greenup, Dam 30‖ O.		.03			.25		.04	T.	.53	T.					.52	.24				T.		.01	.35			.41		.25	.16	.13			2.92
Hazard ‖ K.						.10			.25						.45	.80		.35					.33			.85				.60			3.73
Heidelberg, Lock No. 14‖ K.					.08	.08		.05	1.08						.23	.92					.22	.03	.63			.51		.08	.02	1.35			5.28
Jackson K.					T.	.22		.18	.65						.26	.90	.20				.05		.93			.63		.12		1.40			5.54
Jenkins ‖ K.						.21			.50	.02					.21	.72	.17						.49			.47	.12		.70	.02			3.63
Livingston C.																																
Louisa ‖ B.					.08	.30			.82						.93	.10										.40		.10		.70			3.43
Maysville‖ O.		T.			.26	.19		.03	.31						.69	.39						.02	.54			1.09	T.	.11	.20	.38			4.22
Middlesboro C.					.50	.03		.20	.15						.70							.20	.11		.28	.59		.14		.58			3.48
Mount Sterling K.				T.				.80					T.	.70	.80		T					.68			1.10		.10	.38	T.	1.10			5.63
Oneida C.					.10			.18	.36					.31	.93	.22							.91				.91				.51			4.43
Oneonta Dam 35 ‖ O.		.01			.32	.03			.14						.32					.04		.10	.40			.68	T.	.29	.22	.25			2 80
Paintsville ‖ B.					.07	.20		.14	.73					.26	1.49	.12				.08			.43			.51	.04	.05	.01	.95			5.08
Pikeville‖ B.					.05	.21	T.	.02	.39	.04				.26	.58	.26							.54		.27	.14	.04	T.	1.08	T.			3.88
Pippapass K.				T	.27	T.		.28	.26				.08	.57	.63							.17	.24		.12	.32	T.	.06		.82			3.82
Quicksand ‖ K.					.40	.18			.51					.30	.97	.17							.87			.95		.15		1.40			5.90
Ravenna, Lock No. 12‖ K.		T.			.08	.13		.05	.88					.20	.92	.24				.09			.51			.46		.43	.06	1.13			5.18
Richmond K.					.10	.40			.50				T	.05	.75	.25					.10		.40			.75		.30	.10	1.50			5.20
Valley View, Lock No. 9‖ K.					.10	.22			.39						1.15					T.		T.	.53			.84		.20	.09	1.32			4.84
Vanceburg, Dam No. 32 ‖ O.		.06			.26	.18			.46						.58	.20							.46			.63	.05	.20	.05	.30			3.43
Williamsburg‖ K.					.46		.18			.34	.01				.10	.48	.15							1.30		1.13		.02	.25	.21			4.58
Willow, Lock No. 13‖ K.					.35			1.35						.18	.95	.12				.20		.05	.60			.28		.12	.12	1.15			5.47

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. ¶ Lone Oak.

Daily Temperatures for April, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	65	67	77	73	69	49	62	58	52	54	55	63	71	75	70	65	87	85	77	75	69	82	84	81	62	57	57	62	83	76	..	68.7
	Minimum	42	45	53	55	42	42	40	46	42	37	38	41	52	55	55	43	61	57	53	52	56	57	58	59	47	43	44	45	57	60	..	49.2
Earlington	Maximum	64	63	77	77	70	50	61	60	53	55	56	64	70	76	71	66	88	86	79	48	55	59	50	58	61	45	42	42	43	56	62	46.4
	Minimum	32	32	45	51	47	39	30	40	41	29	32	31	51	58	56	36	53	65	49	43	59	50	58	61	45	42	42	43	56	62	..	69.0
Greenville	Maximum	64	66	76	75	69	49	60	60	52	54	54	62	67	75	70	62	85	84	75	80	78	80	87	82	65	59	56	63	81	80	..	44.0
	Minimum	28	32	41	51	42	38	27	43	39	37	34	27	50	54	51	36	47	64	48	47	49	46	53	60	43	41	39	38	54	60	..	67.1
Henderson	Maximum	64	65	77	70	63	48	59	54	51	54	56	62	73	74	68	64	91	78	76	71	67	79	84	76	62	53	55	62	82	76	..	44.7
	Minimum	38	31	46	51	40	39	31	44	38	28	31	32	52	57	50	35	50	55	45	48	57	51	48	57	46	40	41	44	54	60	..	69.2
Hopkinsville	Maximum	64	66	78	72	70	51	62	54	53	56	56	65	71	75	72	65	88	82	76	81	70	80	86	80	65	60	58	65	80	73	..	69.2
	Minimum	33	33	46	52	41	39	32	45	41	29	35	30	45	53	46	38	49	62	53	56	61	46	52	62	44	42	41	41	59	63	..	45.6
Lovelaceville	Maximum	61	68	75	71	70	51	61	60	52	56	57	64	67	72	69	66	86	80	72	71	71	79	83	78	61	54	61	63	83	77	..	68.0
	Minimum	33	31	50	51	39	38	32	43	39	31	34	32	54	55	57	38	52	62	48	54	59	44	54	59	48	40	38	44	58	61	..	45.9
Mayfield	Maximum	61	69	76	75	69	53	62	62	54	57	56	65	64	74	62	67	85	83	74	75	72	79	80	74	62	57	60	63	83	80	..	68.4
	Minimum	58	35	52	53	38	37	34	45	39	33	37	35	54	55	66	39	54	59	50	55	59	53	59	59	45	41	36	45	59	63	..	47.2
Murray	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Owensboro	Maximum	64	64	74	72	68	48	60	58	50	53	55	62	70	73	71	53	85	83	77	74	63	73	83	81	65	56	55	61	79	76	..	66.9
	Minimum	21	31	45	52	49	37	30	44	36	30	34	31	47	52	50	37	46	51	47	48	55	48	54	61	45	39	38	40	52	59	..	43.7
Paducah	Maximum	63	68	70	69	65	52	63	61	54	55	58	66	68	74	72	70	86	76	76	73	73	80	84	74	61	57	62	62	84	78	..	68.6
	Minimum	33	34	54	60	40	39	31	46	40	31	34	35	54	59	56	38	60	57	48	53	60	49	59	60	48	42	39	45	59	62	..	47.7
Princeton	Maximum	65	71	80	74	70	52	63	56	54	56	59	67	68	76	71	69	89	84	81	73	73	86	88	78	65	58	62	65	87	76	..	70.6
	Minimum	32	32	45	52	39	39	30	45	41	30	35	31	53	57	52	38	51	63	50	50	59	45	52	61	43	41	40	42	58	64	..	45.7
Russellville§§	Maximum	64	68	73	69	66	50	59	59	52	54	54	63	72	76	72	61	86	83	74	75	72	79	84	..	..	..	..	79	78	72	..	[d]69.2
	Minimum	36	39	45	59	51	39	30	31	41	31	35	39	47	58	54	36	45	58	53	53	58	50	56	61	..	..	..	..	39	62	..	[d]46.2
Central Division.																																	
Anchorage	Maximum	..	64	75	67	66	48	..	50	53	52	55	63	69	75	66	58	84	80	74	76	69	74	84	79	64	61	51	60	70	76	..	[b]66.5
	Minimum	..	29	37	47	40	39	..	40	36	23	36	37	45	49	42	41	40	55	41	45	41	40	48	52	40	41	38	38	50	64	..	[b]41.9
Bowling Green	Maximum	67	71	80	81	68	68	61	61	55	58	60	66	69	79	75	66	86	86	80	85	75	85	89	79	66	62	58	63	82	80	75	71.8
	Minimum	38	39	44	53	55	41	32	48	43	34	35	47	56	53	55	40	44	55	54	59	61	50	54	63	45	48	43	40	56	60	..	48.0
Danville	Maximum	65	64	78	75	67	53	58	61	54	55	50	60	64	70	70	56	85	86	72	76	73	76	86	85	72	59	57	62	71	70	..	68.0
	Minimum	27	39	37	45	52	37	33	44	36	30	31	27	39	49	50	40	37	66	47	45	56	48	50	59	43	40	38	38	49	62	..	42.7
Dix Dam	Maximum	65	65	78	75	66	64	60	62	54	50	52	61	63	63	67	56	85	83	73	80	76	78	84	76	70	77	51	62	71	71	..	67.8
	Minimum	31	42	57	46	57	41	36	48	38	32	35	29	44	53	52	43	42	65	50	49	64	53	50	50	48	47	42	33	52	58	..	46.4
Eubank	Maximum	67	80	73	68	80	67	63	66	65	55	45	65	71	72	79	76	72	85	70	83	72	78	88	66	61	62	61	65	75	78	..	70.1
	Minimum	30	37	41	47	45	36	35	37	36	28	28	25	41	51	36	51	43	51	50	47	50	47	46	39	39	41	42	46	60	58	..	41.9
Frankfort	Maximum	64	63	74	69	68	57	57	57	53	52	54	61	67	64	66	57	83	82	73	76	73	75	84	81	73	59	53	62	73	76	..	66.8
	Minimum	28	36	41	41	56	40	30	45	37	32	30	27	41	51	50	42	40	65	46	42	59	51	46	58	43	46	41	40	50	55	..	43.7
Glasgow	Maximum	58	65	70	65	50	48	48	45	50	51	55	60	65	78	69	55	80	75	85	85	75	85	80	70	70	60	60	70	75	75	..	65.8
	Minimum	25	33	40	45	45	34	33	29	30	29	28	32	45	48	45	36	44	50	52	49	59	50	48	46	45	41	37	40	56	61	..	42.0
Greensburg	Maximum	66	68	79	74	67	68	61	60	54	55	56	65	65	74	73	67	83	84	75	84	75	80	87	82	66	61	53	63	77	73	..	70.8
	Minimum	26	37	37	45	55	37	27	44	50	26	29	25	40	49	51	33	38	64	51	40	56	45	46	60	40	43	38	34	52	59	..	41.9
Irvington	Maximum	64	63	77	70	66	47	59	56	51	51	54	61	69	73	70	61	88	81	72	76	68	77	88	78	67	55	52	63	72	74	..	66.4
	Minimum	34	36	42	55	43	39	32	44	38	32	34	32	51	54	54	40	48	61	48	49	56	52	58	62	47	42	41	50	62	75	73	46.4
Leitchfield	Maximum	63	65	76	71	65	45	59	56	50	50	53	63	69	75	70	59	84	82	75	81	69	78	82	77	62	51	50	62	75	73	..	66.4
	Minimum	34	34	42	54	45	39	30	44	39	30	32	34	52	54	52	37	43	63	50	50	55	50	55	61	43	44	39	40	52	60	..	45.2
Lexington	Maximum	64	64	77	67	65	44	62	61	51	51	52	62	64	63	65	58	82	81	73	79	71	73	86	73	64	59	48	62	75	72	..	65.6
	Minimum	32	34	39	50	39	37	32	41	34	28	30	29	44	52	44	40	42	58	47	50	50	50	55	52	44	40	39	39	50	54	..	42.3
Louisville	Maximum	62	61	75	67	67	46	57	51	50	51	53	61	69	70	62	56	84	79	74	75	71	76	84	78	63	51	52	60	71	71	..	64.7
	Minimum	37	38	43	55	40	39	36	43	38	35	38	38	52	55	46	42	46	54	47	53	54	54	59	53	48	42	41	44	51	55	..	45.9
Mammoth Cave	Maximum	65	66	77	80	67	44	59	58	51	53	53	63	64	74	73	62	..	84	75	81	70	78	85	80	57	56	52	62	78	72	..	[a]67.1
	Minimum	27	31	40	51	43	38	26	43	39	26	32	23	50	54	53	33	..	42	51	43	66	48	54	60	42	43	39	36	52	59	..	[a]42.6
St. John	Maximum	62	64	75	70	60	47	57	57	59	52	52	60	65	73	71	57	82	82	72	79	75	78	81	74	62	52	52	62	72	70	..	65.8
	Minimum	30	32	40	52	42	39	31	39	38	29	30	29	48	52	53	37	42	60	48	49	57	49	51	60	41	42	41	37	51	57	..	43.6
Shelbyville	Maximum	62	60	73	67	64	48	56	53	49	50	49	61	65	74	64	55	78	78	70	75	69	71	82	78	65	57	59	60	71	72	..	64.2
	Minimum	32	34	39	52	48	36	32	43	35	30	31	30	44	42	48	42	43	61	47	47	56	51	52	61	42	44	40	40	50	55	..	44.0
Stearns	Maximum	62	66	77	68	62	42	61	68	60	60	61	63	70	76	70	68	82	80	74	82	70	77	84	74	65	56	50	58	78	74	..	66.8
	Minimum	30	42	42	56	53	38	32	34	38	32	33	28	34	54	51	38	38	58	54	50	65	48	50	66	46	43	38	36	51	59	..	44.6
Taylorsville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	60	58	65	57	65	45	57	44	46	46	47	56	66	66	65	50	80	88	65	67	59	65	82	82	70	63	47	56	71	72	..	61.8
	Minimum	33	34	37	45	52	38	30	42	30	30	28	31	45	53	53	40	40	62	43	47	55	51	51	59	43	45	39	40	48	53	..	43.2
Eastern Division.																																	
Ashland	Maximum	65	60	65	60	64	64	58	55	52	55	46	57	68	68	64	51	77	84	72	75	71	72	88	69	56	58	58	63	69	69	..	64.3
	Minimum	28	33	42	41	55	43	40	42	38	35	30	27	37	50	47	40	37	54	49	40	56	54	46	55	49	43	43	41	51	51	..	43.4
Berea	Maximum	66	66	79	67	64	61	60	67	54	51	..	63	66	64	71	58	83	82	73	80	76	76	88	87	66	60	52	65	73	75	..	[e]68.9
	Minimum	31	40	45	45	53	45	40	32	35	31	..	29	35	54	51	41	39	65	48	46	57	52	54	50	46	43	40	39	50	60	..	[e]44.7
Cumberland	Maximum	65	67	75	74	65	64	66	65	72	65	62	64	69	72	70	58	81	80	85	80	77	77	90	86	72	59	54	59	78	76	..	70.7
	Minimum	26	46	34	45	44	40	38	30	32	32	35	38	34	42	50	41	31	50	52	41	60	45	44	51	46	38	38	34	56	50	..	41.3
Farmers	Maximum	67	65	72	73	68	66	61	63	55	51	51	62	68	68	66	60	..	83	76	81	79	73	76	78	73	68	60	67	77	76	..	[e]68.1
	Minimum	23	38	35	38	55	38	30	40	36	31	25	22	38	50	49	39	..	83	35	87	47	42	53	48	41	38	37	47	58	..	..	[e]39.2
Heidelberg	Maximum	67	68	66	71	66	63	62	55	55	50	48	54	67	59	70	56	80	85	74	77	72	76	86	78	72	62	53	57	71	71	..	66.2
	Minimum	26	44	33	39	40	40	31	42	40	30	31	25	35	45	51	43	32	52	52	39	54	48	45	54	51	41	41	35	51	49	..	41.8
Livingston	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Maysville	Maximum	65	62	67	72	69	62	66	56	50	47	50	61	70	68	64	58	79	77	72	76	74	76	85	79	70	60	51	64	72	73	..	66.1
	Minimum	26	34	38	40	52	39	28	42	35	32	26	24	35	46	45	39	36	62	40	38	55	50	43	54	46	42	39	40	47	55	..	40.9
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	27	..	34	40	51	42	33	42	39	37	32	26	35	51	51	43	35	58	56	44	60	43	44	59	50	41	40	35	51	58	..	[a]43.2
Mount Sterling	Maximum	65	62	76	70	47	62	60	64	43	49	46	61	65	63	66	57	80	82	78	80	76	73	86	73	66	59	50	62	76	72	..	65.6
	Minimum	27	39	34	42	39	30	42	44	39	31	28	25	38	50	40	40	38	58	40	43	55	48	45	56	44	40	44	39	50	53	..	41.7
Pikeville	Maximum	69	69	79	70	73	50	65	70	53	55	51	63	72	68	72	58	87	90	78	85	81	79	91	80	67	66	61	68	81	69	..	70.7
	Minimum	29	47	35	49	52	48	42	43	41	38	39	29	35	49	54	43	34	43	57	42	67	49	48	55	50	45	44	43	51	56	..	45.3
Pippapass	Maximum	68	63	73	73	66	64	64	69	63	49	51	57	65	70	72	54	85	69	81	82	81	78	85	78	68	47	53	48	40	41	36	51	53	..	42.8
	Minimum	28	46	34	45	49	39	38	41	29	33	34	27	35	50	52	41	32	54	54	40	58	48	47	53	48	40	41	36	51	53	..	40.8
Quicksand	Maximum	69	68	79	74	67	66	64	68	57	50	53	62	69	67	70	61	84	87	77	83	80	72	75	82	70	65	62	50	64	70	..	65.9
	Minimum	24	43	31	38	48	39	30	40	37	32	29	23	31	46	51	40	30	57	51	37	57	48	44	51	48	39	39	35	49	52	..	40.6
Richmond	Maximum	60	66	66	[e]0	70	65	45	65	62	52	50	53	64	64	65	55	60	[e]2	82	82	80	72	75	82	70	65	62	50	64	70	..	65.9
	Minimum	38	40	40	55	55	38	33	46	36	30	32	31	46	52	50	40	40	62	48	50	48	48	57	62	46	35	38	40	45	55	..	43.1
Williamsburg	Maximum	65	71	78	74	71	64	64	64	79	66	53	54	64	75	76	75	63	82	83	80	79	83	80	81	88	73	70	64	53	60	80	76	..	71.3
	Minimum	87	45	44	42	56	44	34	44	44	38	35	35	28	41	53	51	38	39	64	62	45	58	59	51	61	49	44	41	37	53	61	..	46.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a, b, c, etc. indicate respectively 1, 2, 3 etc., days missing from record.

C. B. O. Louisville, 4-25-37. 1100

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., MAY, 1937 No. 5

GENERAL SUMMARY.

Cool, showery weather during the first three weeks retarded growth and prevented most field work. In this long spell of wet weather there were only a few days on which the soil became dry enough to be worked or for corn to be planted. The delay to corn planting and to growth of tobacco plants amounted to at least two weeks. Wheat on flat lands and those with slow drainage continued to drown in spots or show by its yellow color the stunting effects of too much water. For this reason the developing grain crops showed marked irregularity in size as they approached the heading stage. Pastures grew rank on slopes and uplands, but suffered from too much moisture on low ground. Land that had been broken but not conditioned became packed and very weedy, so that much labor and time were required to prepare it for planting.

After the 20th the dry weather favored corn planting and other field work, while the abnormally high temperature brought quick germination. The impetus given to growth by the heat of this period, and to farm work by the prevailing dryness, made up to a considerable degree for the lost time earlier in the month. Current farm activities remained behind, however, at the end of the month.

Strawberries had been damaged by rain, but decided improvement in quality accompanied the sunshine and high temperature. The abnormal heat of the last few days had a tendency to shorten production. Early potatoes, which had suffered from insufficient cultivation, were advanced too rapidly toward maturity.

The dry weather brought immediate improvement in grains. It came barely in time for wheat, which was ready to head in most of the State. Tobacco plants reached size for transplanting in the last week, and setting by machine advanced fairly well. Hand setting was possible in a few southern localities that were visited by good showers. The extreme heat was unfavorable for obtaining a stand. Hardening of the soil late in the month impeded plowing. Conditions during the last decade were unusually favorable for curing clover and first crop alfalfa hay.

TEMPERATURE.

The accumulated deficiency in temperature during the first twenty days was practically balanced by the excess warmth of the last decade. Therefore while the weather was predominantly cool, the temperature for the month averaged near normal. All western and some central stations had monthly temperatures above normal, but at most central and eastern stations the average was lower than the seasonal mean. The extremes were 99° at Greensburg on the 31st, and 36° at several eastern stations in the period 7-11th.

PRECIPITATION.

Despite the showery character of the month, precipitation averaged somewhat below normal. Measurable amounts were reported on all but four days. Showers occurred daily in all districts during the first week; also in the periods 12-14th and 28-19th. Heavy rains were reported from many stations on the 2d, 13th, and 14th. The rainfall on other days was generally in the form of light to moderate showers. Several counties in the lower Green River Valley received 6.0 to 8.0 inches. In most other western counties, the north-central district, and some southeastern sections amounts ranged from 4.0 to 6.0 inches. The area from the middle bluegrass region and upper Green River Valley eastward received from 2.0 to 3.5 inches. For the State precipitation varied between 1.78 inches at Jenkins and 9.66 inches at Williamsburg. Days with thunderstorms were: 3, 4, 5, 7, 9, 12, 18, 22, 25, 26, 27, 28, 30, 31.

MISCELLANEOUS.

May 18.—A windstorm at Henderson caused damage to buildings, electric lines, and trees estimated at $25,000. Hail accompanying the storm damaged young fruit in the orchards east of the city. Wind damaged trees and buildings at Calhoun, with a loss estimated at $5,000 damage. Damage to young plants, gardens, greenhouses, and flowers by hail in south Louisville was estimated at $500.

Rivers.—The moderately high stages in the upper Ohio early in the month subsided during the first decade. Flood stages were somewhat exceeded during the first week in the Ohio from Dam 46 to Cairo, and continued in the extreme lower river until the 17th. Low bottoms in the Evansville and Cairo districts were flooded for about two weeks.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	2 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.97	30.18	10	29.74	22	7.7	51	E	18	79	53	56	68
Cincinnati .....Ohio	30.01	30.24	1	29.71	5	6.5	27	W.	22	77	56	61	63
Evansville.....Ind.	29.98	30.19	10	29.76	18	7.7	34	NW.	22	74	52	56	72
Louisville .....Ky.	29.98	30.22	10	29.76	8	9.1	33	NW.	22	76	60	59	63

COMPARATIVE DATA FOR MAY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	63.6	94	28	4.03	....	..	..	..	..
1890	63.9	93	32	4.22	....	..	..	..	..
1891	62.6	90	29	1.78	....	..	..	..	..
1892	64.6	90	36	5.49	....	..	..	..	..
1893	63.2	96	37	5.59	....	..	..	..	..
1894	64.5	99	32	3.54	....	..	..	..	..
1895	63.9	99	29	3.16	....	8	13	10	8
1896	72.2	106	42	5.34	....	11	14	11	6
1897	61.4	92	32	3.27	T.	10	15	9	7
1898	67.6	93	31	4.52	0.2	10	14	11	6
1899	68.8	94	42	4.79	0	11	11	12	8
1900	66.3	96	29	3.49	0	10	15	8	8
1901	68.7	97	34	2.65	0	10	12	9	10
1902	70.0	98	35	3.55	0	9	17	9	5
1903	68.0	98	29	3.09	0	8	15	10	6
1904	65.0	98	33	3.05	0	10	14	9	8
1905	68.0	95	38	5.23	0	11	12	9	10
1906	69.5	95	31	2.54	T.	9	16	7	8
1907	61.3	93	30	5.07	0	12	12	7	12
1908	66.7	96	28	4.34	0	12	13	8	10
1909	63.9	93	27	4.64	T.	12	13	7	11
1910	61.1	89	30	4.81	0	12	13	6	12
1911	69.4	105	29	2.46	0	5	22	5	4
1912	66.7	97	37	4.53	0	10	16	6	9
1913	66.1	99	29	2.92	0	8	16	7	8
1914	66.5	103	32	2.16	0	5	20	6	5
1915	65.2	96	35	6.62	0	15	9	8	14
1916	67.2	98	33	4.02	0	9	14	9	8
1917	58.9	92	30	3.43	0	10	12	8	11
1918	69.4	97	28	4.29	0	8	16	8	7
1919	63.9	95	35	6.05	0	14	9	8	14
1920	64.2	94	32	4.08	0	11	13	7	11
1921	65.9	97	32	2.45	0	8	16	8	7
1922	67.9	94	35	3.87	0	10	14	10	7
1923	63.9	91	27	3.98	T.	13	11	8	12
1924	59.9	92	34	5.04	0	14	10	9	12
1925	61.2	98	28	2.61	T.	8	16	8	7
1926	66.2	101	31	2.36	0	7	17	8	6
1927	65.7	93	31	7.44	0	16	10	10	11
1928	63.2	94	29	3.55	0	9	16	7	8
1929	64.1	98	32	7.35	T.	14	12	8	11
1930	66.5	94	33	2.56	0	9	15	8	8
1931	62.7	97	30	2.59	0	11	13	8	10
1932	65.1	92	33	1.39	0	6	18	8	5
1933	68.7	95	40	6.43	0	15	11	9	11
1934	67.7	99	36	1.67	0	5	20	6	5
1935	63.5	91	36	7.40	0	14	11	9	11
1936	68.3	96	35	1.50	0	5	22	6	3
1937	65.2	99	36	4.01	0	10	16	7	8
Period	65.4	106	27	3.99	T.	10	14	9	8

†49-year averages.

Climatological Data for May, 1937.

Stations	Counties	Elevation, feet	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Birmingham	Marshall										4.40		1.71	0	8					Tennessee Valley Authority.
Calhoun	McLean	437	33	67.0	+ 0.4	94	31	46	15	25	8.69	+4.71	1.98	0	12	6	22	3	sw.	W. A. Taylor.
Carlington	Hopkins	420	47	68.1	+ 1.1	97	30†	43	8	36	5.84	+1.73	3.08	0	8	18	7	6	sw.	Brick Southworth.
Cerulean	Trigg	356	8								5.33		1.80	0	11					Lockmaster.
Fords Ferry, Dam 50	Critttenden	519	20	65.2	0.0	94	30	41	8	37	6.37	+2.12	2.45	0	10	17	7	7	s.	C. R. Lovell.
Greenville	Muhlenburg	382	23	66.5		97	31	41	15	36	6.35	+2.42	1.78	0	11	14	15	2	w.	Frank Streck.
Henderson	Henderson	524	41	67.4	+ 0.2	97	31	44	14†	34	7.60	+3.48	3.21	0	8	19	11	1	s.	W. K. Morris.
Hopkinsville	Christian		8	67.6		94	30	44	7†	34	3.80	+0.30	2.00	0	15	16	11	4	s.	Blaine Malone.
Lovelaceville	Ballard	364	28	68.9	+ 2.4	96	31	42	15	26	3.95	−0.05	1.55	0	7	16	10	5	s.	Mrs. Joe Payne.
Mayfield	Graves	412	11																	Harry B. Arnold
Murray	Calloway	479	40	65.6	+ 0.2	93	31	43	15	30	6.46	+2.53	2.00	0	11	15	4	12	se.	Henry S. Berry.
Owensboro	Daviess	404	4								6.58	+2.74	1.50	0	13					Lockmaster.
Owensboro, Dam 46	Daviess	516	20	68.1	+ 1.6	94	31	40	15	32	3.26	−0.68	1.60	0	10	17	9	5		Joe Lagore.
Paducah **	McCracken	529	30	68.9	+ 2.1	97	31	44	8	39	5.38	+1.23	1.89	0	8	16	10	5	sw.	Dr. W. L. Cash.
Princeton	Caldwell	384	20								7.69	+2.86	1.64	0	10					Lockmaster.
Ramsey, Lock 2‡	McLean	530	26	66.2	+ 0.5	97	31	42	8	34	3.66	−0.21	1.10	0	9	17	8	6	s.	Wm. Shelton.
Russellville	Logan	357	9								3.70	+0.52	1.23	0	9					Lockmaster.
Uniontown, Dam 49	Union																			
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								5.05	+1.03	1.51	0	14					Lockmaster.
Anchorage	Jefferson	700	36	63.8	+ 0.4	93	31	39	8	35	5.16	+1.49	2.13	0	10	16	5	10	se.	C. E. Barret.
Bowling Green	Warren	500	48	68.2	+ 0.7	96	31	46	8†	34	5.31	+1.12	0.76	0	12	15	10	6		Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	420	20								4.73	+0.70	1.01		13					Lockmaster.
Burnside	Pulaski	706	46								3.83	−0.67	1.06	0	11					T. A. Lewis
Carrollton, Lock 1	Carroll	480	38								3.53	−0.30	0.86	0	7					Lockmaster.
Cold Spring, Dam 36	Campbell	489	11								3.39	−0.46	0.76	0	12					Lockmaster.
Danville	Boyle	540	4	63.6		94	31	41	11	38	3.45	−0.56	0.66	0	10	18	5	8	s.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	65.8	+ 0.9	95	31	41	8	45	3.02	−0.45	0.79	0	10	18	5	8	s.	C. W. Williams.
Eadsville	Wayne	622									6.04		1.57	0	11					Lockmaster.
Eubank	Pulaski	1177	43	63.3	− 0.7	95	30†	36	8	44	3.10	−1.25	1.18	0	8	14	7	10	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	64.0	− 1.2	96	31	40	11	39	4.19	+0.91	1.28	0	12	18	3	10	w.	Lockmaster.
Gest, Lock 3	Henry	490	26								4.27	+0.97	1.21	0	11					Lockmaster.
Glasgow	Barren	780	11	63.9		95	30†	41	9	36	3.88	+0.25	1.28	0	6	24	1	6	s.	R. L. Beatty.
Grant, Dam 38	Boone	750	12								5.30	+2.21	1.81	0	11					Lockmaster.
Greensburg	Green	581	44	64.9	+ 0.4	99	31	36	8	41	3.08	−1.20	0.89	0	7	4	8	19	n.	Mrs. Bettie K. H. Alcorn
High Bridge, Lock 7	Jessamine	544	35								3.19	−0.47	0.81	0	10					Lockmaster.
Irvington	Breckinridge	646	39	65.8	− 0.2	92	31	43	8	30	5.14	+1.41	1.77	0	9	20	3	8	sw.	W. J. Pigeot.
Lancaster	Garrard	1032	11								2.80	−1.55	0.57	0	11					Walter Killion.
Leitchfield	Grayson	635	41	65.0	− 0.3	97	31	42	8	33	4.09	−0.18	1.23	0	10	13	11	7	sw.	H. H. Willis.
Lexington	Fayette	989	53	64.1	− 0.2	95	31	40	8	35	3.28	−0.53	0.75	0	14	15	7	9		U. S. Weather Bureau
LittleHickman, Lock 8§	Jessamine	560	26								2.50	−1.28	0.97	0	8					Lockmaster.
Lockport, Lock 2	Henry	485	27								5.64	+2.18	1.52	0	10					Lockmaster.
Louisville	Jefferson	459	64	65.8	− 0.8	94	31	46	10	29	3.84	+0.12	1.16	0	9	14	6	11	n.	U. S. Weather Bureau
Mammoth Cave	Edmonson			64.1		94	25†	37	8	49	3.61		1.20	0	12	18	9	4	se.	Ivan J. Ellsworth.
St. John	Hardin	777	41	64.8	+ 0.7	96	31	41	8	35	5.17	+1.10	1.45	0	13	20	1	10	. .	Sisters of Loretto.
Salvisa, Lock 6‡	Mercer	520	23								3.83	+0.32	1.10	0	8					Lockmaster.
Shelbyville	Shelby	825	48	63 8	− 0.6	93	31	42	8	33	4.16	+0.36	1.11	0	11	15	1	15	n.	Miss RuthRutta,
Shepherdsville	Bullitt	500									6.77		2.35	0	9	19	2	10	sw.	A. McLeod.
Stearns	McCreary	1100		64.0		91	31	40	8	34	4.43		1.39	0	12	9	5	17	sw.	Geo Wright
Taylorsville	Spencer	489	35																	Elizabeth J. Bourne.
Tyrone, Lock 5‡	Anderson	524	19								3.46	−0.04	1.05	0	11					Lockmaster.
Williamstown	Grant	943	34	64.4	+ 0.7	97	31	40	6	33	3.75	+0.11	1.05	0	12	20	2	9	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	20								3.91	+0.28	1.01	0	10					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								2.88		0.63	0	10	10	10	11	sw.	W. A. Worthington.
Ashland	Boyd	534	18	62.4	− 1.9	93	31	38	11	40	2.82	−1.24	0.63	0	9	15	5	11	n.	Lockmaster.
Barbourville	Knox	1050																		Mrs. Ralph Tuggle.
Berea	Madison	1070	32	*64.8	− 0.1	94[a]	31	41[a]	8†	47[a]	2.16	−1.88	1.50	0	8	19	2	10	w.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	27								2.27	−1.67	0.88	0	8					Lockmaster.
Cumberland	Harlan	1440		63.8		90	29	36	11	44	2.35		0.76	0	10	25	2	4	sw.	C. Bertrand Fields,
Cynthiana	Harrison	684	19								2.40	−1.01	0.90	0	7					P. H. Renoe.
Falmouth	Pendleton	600	48								3.16	−0.37	0.98	0	13					J. V. Oldham
Farmers	Rowan	668	29	62.8	− 0.4	92	27†	36	7†	40	2.93	−0.97	0.85	0	9	16	6	9	e.	Mrs. R. E. Stamper.
Flemingsburg	Fleming	841	12								2.81	−0.89	1.05	0	10					C. A. Glascock
Ford, Lock 10‡	Clark	637	21								2.90	−0.61	1.00	0	10					Lockmaster.
Greenup, Dam 30	Greenup	1197	9								2.40	−0.91	0.80	0	11					Lockmaster.
Hazard	Perry	869	13								2.97	−2.14	0.79	0	12					Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	63.8		93	30	38	11	46	3.77	−0.21	1.54	0	10	11	6	14	sw.	Lockmaster.
Jackson	Breathitt	540	17								1.99		0.63	0	6					Jas. T. Golf.
Jenkins	Letcher	776									1.78	−2.59	0.63	0	8					K. J. Howard,
Livingston	Rockcastle	950																		B. H. Griffin.
Louisa	Lawrence	584	33								2.66	−1.20	0.80	0	7					Lockmaster.
Maysville	Mason	524	17	62.2	− 2.3	93	31	37	11	44	3.27	−0.44	1.98	0	11	6	15	10	sw.	Lockmaster.
Middlesboro	Bell	1128	40					39[a]	7†		4.65	+0.63	1.48	0	11					Matthew Woodson
Mount Sterling	Montgomery	930	41	62.8	− 0.9	95	31	39	8	37	2.70	−1.55	0.80	0	7	17	8	6	w.	W. R. McKee.
Oneida	Clay		47								2.97		0.85	0	9					Joe L. Gay.
Oneonta, Dam 37*	Campbell	497	10								3.11	−0.34	0.91	0	11					Lockmaster.
Paintsville	Johnson	567	3								2.18		0.62	0	12					Manuel Robinson.
Pikeville	Pike	636	31	66.2		95	31	40	11	30	2.65	−0.39	0.78	0	11					U. S Weather Bureau.
Pippapass	Knott	1035	3					38*	7		3.17		1.05	0	12	8	17	6		Caney Run Com. Cen.
Quicksand	Breathitt	732	11	63.8	− 1.0	93	30	36	11	47	2 48	−2.66	0.77	0	8					R. W. Jones.
Ravenna, Lock 12	Estill	926	46	64.7	− 0.8	90	27†	43	8	31	2.52	−1.40	0.54	0	7					Lockmaster.
Richmond	Madison	571	24								2.77	−1.07	0.90	0	12	14	0	17		I. W. Crooke.
Valley View, Lock 9	Madison	525	22								3.76	−0.25	1.61	0	9					Lockmaster.
Vanceburg, Dam 32	Lewis	659	38	66.2	+ 0.3	94	26	42	11	38	3.11	−0.72	1.18	0	10					Lockmaster.
Williamsburg	Whitley	676	20								9.66	+5.57	3.47	0	11	18	4	9		John W. Stephens.
Willow Lock 13	Lee			65.2	− 0.2	99	31	36	7†	47	4.00	+0.20	1.25	0	8					Lockmaster.
State averages and extremes											4.01	+0.02	3.08	0	10	16	7	8	sw.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc. §Lone Oak.

† Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow

* Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for May, 1937.

Stations	Day of month																													Σ
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.		1.71		.50	.48	.22							.14	.79												.20				.26		4.40
Calhoun G.	.62	1.98	.51	.52	1.76	.01						.15	1.68					.07	1.04							.02		T		.40		5.99
Earlington G.		3.08	.90	.58	.81	.06						T.	.38	.02					.01													5.84
Fords Ferry Dam 50 ‖ O.	.04	1.80	.56	.07	.98	.79				.01		T.	.98	.05					.02				.03				T.	T.		T		5.34
Greenville G.	.50	2.45	.45	.15	.84							.42	.40						.4							T.				.31	.40	6.57
Henderson O.	.82	1.78	.88	.33	1.38	.06						.02	.65					.26	.15	T.		T.									.02	6.35
Hopkinsville C.	3.21	1.16	1.10	.25	.84	.06						.18	.86																			7.60
Lovelaceville M.		2.60			.85							.25	.10					.60														3.80
Mayfield M.	.97	1.65	.03	T.	1.04				T			.19	.12			T.			T.			F.		T.					.05		3.95
Murray T.																																
Owensboro O.	T.	2.00	.53	.45	.83	.53				.49		T.	.40	.32		T.			.74			T.	T.				T.	.15	T.		.02	6.46
Owensboro, Dam 46 ‖ O.	.21	1.90	.57	.53	.97	.48				.45		.01	.37	.28					.66			T.					.08	.07				6.58
Paducah O.	.06	1.60	.34	.08	.24	.38						T.	.47	.01					T.			.04								.04	3.26
Princeton G.	1.25	1.89	.52	.06	1.22							.10	.30									T.				T.				.01		5.35
Ramsey, Lock No. 2 ‖ G.	.21	1.64	.36	.83	1.23	.50							1.05	.78					.90											.10		7.60
Russellville G.	.11	1.10	.60	.56	.11	.17							.56	.33					.12													3.66
Uniontown, Dam 49 ‖ O.	.07	1.28	.93	.15	.15	.70							.16	.02					.29				T.									3.70
Central Division																																
Addison, Dam 45 ‖ O.	.47	.18	1.51	.60	.06	.27				.14		.18	.80	.43		T.			.08				.11					.10	.12		T.	5.05
Anchorage O.	.03	.83	.37	.13	.29		.09		.18			.82	2.13						.29													5.16
Bowling Green G.	.45	.70	.47	.40	.22	.35						.05	.31	.70					.50									.40		.76	5.31
Brownsville, Lock No. 6 ‖ G.	.39	.35	.87	.30	.30	.37				.12		.18	.36	.43					1.01			.02						.03			4.73
Burnside ‖ C.			.37	.08	.48	.33							1.06	.43					.41				.03				.10	.07	.54			3.88
Carrollton † (Lock No. 1) K.		.18	.38			.55				.72			.72	.86					.12													3.53
Cold Spring, Dam 36 ‖ O.			.16	.21	.26	.62	.20	.21					.73	.76	.05	.01			.11				T.					.07				3.39
Danville K.		.23	.26	.48	.43	.01	.18					.02	.66	T.				.25	.18			.06	.09			T.						3.45
Dix Dam, Burgin ‖ K.		.30	.03	.40	.56		.13					.79	.29					.35				.13				.04						3.62
Eadsville ‖ K.				.48	.02		.22						1.57		.60				.99			.03	.15				.32	.07	1.05			6.03
Eubank C.			.09	.19	.23	.39				.09		.42		.51					1.18													3.10
Frankfort ‖ K.	.04	.05	.42	.07	.27	.44	.13			.20		T.	1.12	1.28		T.			.21			.01										4.19
Gest, Lock No. 3 ‖ K.			.37	.07	.30	.58	.28	.06		.33			.90	1.21		.02			.15													4.27
Glasgow G.		1.28		.70	.25								.92	.38					.35													3.88
Grant, Dam 35 ‖ O.	T.		.17	.12	.05	.69	1.25	.26				T.	1.81	.82	T.	.02	.01	T.	.10			T.	T.										5.30
Greensburg O.	.10	T.	.89	.08	.70	.33							.56	.42																		3.08
High Bridge, Lock No. 7 ‖ K.		T.	.34	.03	.43	.81		.44		T.			.45	.44					.18				.02				.04					3.19
Irvington O.		1.58	.03	.29	.83	.18				.03		.23	1.77					T.									.20					5.14
Lancaster K.		.36	.02	.45	.40		.10					.57	.23					.35			.04	.15				.19						2.80
Leitchfield G.	.02	1.23	.08	.32	.67					.13		.48	1.01			T.	T.	.18	T.			T.					.02					4.09
Lexington *** K.	.11	.23	.07	.18	.89		.09		.19			.75	.51		T.	.02		.06	.03			.11	.04			T.						3.28
Little Hickman, Lock No. 8 ‖ K.			.30	T.	.30	.25		.20					.97	.30					.10				.08									2.50
Lockport, Lock No. 2 ‖ K.			.45	.35	.15	.58	.48			.35			.85	1.52	.70	T.			.21													5.64
LOUISVILLE*** O.	T.	.98	.08	.03	.34		.01		.05			.92	.70		T.	T.		.73	T.			T.										3.84
Mammoth Cave G.	.01	1.20	.13	.61	.26	.03				.08		.51	.47						.25				.01				.05					3.61
St. John S.	.14	.15	.45	.18	.49	.50				.01		.03	1.22	.70			T.		.20				.02				T.	.08				5.17
Salvisa, Lock No 6 ‖ K.	T.		.54	.70	.82	.45			T.				1.10	.30					.35				.07									3.83
Shelbyville S.			.68	.05	.49	.21		.12		.05			1.11	.92		.08			.44				.01									4.16
Shepherdsville S.		.83	.84	.64	.48	.06			.08			.70	2.35					.82														6.77
Stearns K.		.03	.26	.39	.48	.90						.40	1.39	.09				.16					.23	.03			.69	.26				4.43
Taylorsville S.																																
Tyrone, Lock No. 5 ‖ K.	T.		.02	.10	.28	.32	.03	T.		.08			1.05	.92		.02			.12			.02	T.									3.46
Williamstown L.			.18	.11	.23	.58	.30	.40	.02	.25			.60	1.05		.15			.08													3.75
Woodbury, Lock No. 4 ‖ G.	2 8	1.01	.70	.56	.17	.48						.09	.14	.28					.20													3.91
Eastern Division																																
Annville K.			.18	.03	.35	.68		.07		.09			.58	.43					.18				T.					.26				2.85
Ashland ‖ O.					.08	.63		.40		.27			.53	.44	.35		T.		.05				.07	T.								2.82
Barbourville C.																																
Berea K.			.19	.07	.20		.01					.07		T.					.08			.04				T.	1.50					2.16
College Hill, Lock No. 11 ‖ K.			.22	T.	.14	.32							.88	.35					.07			.22					.07					2.27
Cumberland C.		T.	T.		.57			.16	.07			.04	.70	.20			T.		.36			T.					.10	.10		.05		2.35
Cynthiana ‖ L.		T.	T.	T.	.10	.10	T.	.40				T.	.90	.70	T.	T.	T.	T.	.10	T.	T.	T.	.10									2.40
Falmouth ‖ L.	.03		.18	.08	.13	.53	.21	.08		.19			.62	.98		.02			.09			.02	T.									3.16
Farmers ‖ L.			.22	.10	.12	.75		.20					.58	.83					.08								.05					2.95
Flemingsburg ‖ L.			.23	.20	.05	.27	T.	.31		.38			1.12	1.09	.04				.09													3.81
Ford, Lock No. 10 ‖ K.			.24	.03	.09	.65		.22		.06			1.06	.39	T.	T.			.07			.15				T.	T.					2.90
Greenup, Dam 30 ‖ O.				.08	.80		.07		.12				.10	.73	.33	.03			.07		T.	.02				.05						2.40
Hazard ‖ K.			.03		.35	.25	.02			.10		.08	.50	.79	.07			.10				.38					.30					2.97
Heidelberg, Lock No. 14 ‖ K.			.24	.06	.15	.67		.09					.39	.32					.11			.20					1.54					3.77
Jackson K.			.10		T.	.55							.35	.36								.63					.13	.01	.22			1.99
Jenkins ‖ K.						.63	.03		.04					.56				.08				.13					.24		.07			1.78
Livingston C.																																
Louisa ‖ B.					.30	.54		.80					.16	.25								.51					.10					2.86
Maysville ‖ O.			.05	.10	.02	.25	T.	.36		.14			.20	1.98	T.	T.	.05		.06			.06										3.27
Middlesboro C.					.78	.38						.35	1.48	.01					.26			.12				.06	.70	.42			.16	4.05
Mount Sterling K.		T.	.30	.40	.30		.30					.80	.50	T.		T.		.10				T.										2.70
Oneida C.			.18			.85				.11			.30	.60					.21			.03	.63					.66				2.97
Oneonta Dam 35 ‖ O.	T.		.16	.22	.16	.23	.11	.22					.91	.72	.26	T.			.10			.02				T.	T.					3.11
Paintsville ‖ B.			.12		.33	.62		.29		.05			.03	.16	.02				.04			.21					.01	.80				2.18
Pikeville ‖ K.	.08				.08	.70	T.	.09					.08	.78	.01				T.			.41					.19	.01	.22			2.65
Pippapass K.			.13	T.	.78	.26	.03					T.	1.06	.02	.07				.04				.04			.05	.22	.37			T.	3.17
Quicksand ‖ K.			.10	.40		.18		.08				.28		.35								.32					.77					2.48
Ravenna, Lock No. 12 ‖ K.			.26	T.	.22	.54							.42	.53		T.			.13				T.				.42					2.52
Richmond K.			.25	.05	.15	.50		.30					.90	.30	.03				.08			.04	.12				.05					2.77
Valley View, Lock No. 9 ‖ K.			.33	.05	.17	.62		.38					1.61	.37		T.			.16				.12									3.76
Vanceburg, Dam No. 32 ‖ O.					.07	.74		.20		.14			.18	1.18	.53		.03		.06				.12	T.								3.11
Williamsburg ‖ C.			.08	.07	.42	.27							1.16	1.04	T.				2.02				.37				.29	3.47	.47			9.66
Willow, Lock No. 13 ‖ K.			.20	T.	.65	.54							.75	.35					.12				.14				1.25					4.00

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

; Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. † Lone Oak.

Daily Temperatures for May, 1937.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																
Calhoun	Maximum ...	67	57	71	70	66	71	69	73	79	73	79	79	71	67	65	80	76	82	79	75	89	88	79	82	88	90	76	87	90	91	94	77.5
	Minimum ...	54	52	54	55	56	51	51	49	54	49	52	60	58	48	46	56	53	57	56	53	64	62	57	57	63	67	65	64	66	67	69	56.6
Earlington	Maximum ...	70	57	74	75	74	72	72	74	80	75	80	81	76	72	71	82	80	86	83	81	90	89	81	85	90	92	92	93	93	97	97	81.1
	Minimum ...	51	51	53	55	56	49	46	43	44	49	44	57	61	46	47	53	49	51	55	53	61	63	51	49	64	71	69	69	64	67	67	55.1
Greenville.....	Maximum ...	69	56	70	70	63	30	72	76	79	73	78	76	71	67	66	80	78	83	80	75	87	86	76	80	82	89	83	83	90	94	93	77.6
	Minimum ...	50	51	51	54	53	48	43	41	42	49	42	54	59	42	44	54	50	49	57	49	54	61	54	48	52	67	64	65	62	63	66	52.8
Henderson.....	Maximum ...	68	57	69	72	69	72	70	75	81	73	78	80	74	63	65	83	80	83	84	74	86	85	81	79	82	89	92	91	91	92	95	97	78.3
	Minimum ...	58	53	68	55	55	48	47	43	46	49	42	61	60	47	41	56	49	51	56	50	60	62	53	49	55	70	68	66	68	67	68	54.7
Hopkinsville	Maximum ...	68	60	73	70	65	71	74	74	78	71	80	79	73	68	66	79	78	84	79	77	89	83	78	82	88	90	90	92	93	96	97	78.9
	Minimum ...	52	54	53	57	55	49	47	45	47	53	46	58	61	44	45	57	53	52	60	56	56	64	58	53	57	68	68	66	66	68	67	56.0
Lovelaceville	Maximum ...	78	62	73	72	68	70	75	76	79	78	79	77	74	67	70	80	74	85	80	77	87	86	77	82	90	90	90	92	94	93	79.4
	Minimum ...	55	55	57	48	55	49	44	45	52	50	49	63	60	44	49	58	52	50	58	56	60	61	57	61	56	68	64	66	64	67	65	55.7
Mayfield	Maximum ...	74	71	74	72	64	72	77	77	79	79	78	75	69	67	81	78	86	84	79	87	86	77	81	86	90	91	93	93	95	96	80.3
	Minimum ...	53	55	53	54	53	49	48	49	56	52	49	64	60	45	42	58	56	55	59	56	65	66	60	56	60	68	67	69	67	69	66	57.5
Murray	Maximum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Owensboro	Maximum ...	69	59	71	71	63	71	66	72	78	78	76	76	77	68	68	79	75	80	77	74	88	81	76	81	86	89	89	87	89	92	93	77.3
	Minimum ...	53	51	50	53	53	49	48	44	46	45	46	57	56	45	43	49	51	62	54	50	57	61	57	51	51	66	66	65	64	66	68	53.8
Paducah.....	Maximum ...	68	62	76	72	68	70	75	75	79	72	79	76	74	68	68	79	76	88	80	78	88	78	78	87	89	90	91	91	93	93	94	79.1
	Minimum ...	57	55	54	55	55	50	46	47	56	49	50	67	61	47	40	60	52	52	59	56	66	63	57	51	57	71	68	68	65	68	67	57.1
Princeton	Maximum ...	69	60	73	77	72	75	76	75	82	76	85	80	74	65	70	82	80	88	81	81	92	82	81	87	93	92	94	91	91	92	97	81.1
	Minimum ...	52	54	52	58	55	51	46	44	48	51	46	60	62	46	47	58	54	63	59	55	59	64	59	54	58	67	66	69	67	68	67	56.7
Russellville§§.....	Maximum ...	61	60	71	66	64	71	73	71	78	72	78	80	68	58	67	80	78	88	69	74	88	85	73	80	90	92	91	91	89	94	97	77.2
	Minimum ...	54	54	53	56	56	51	48	42	46	56	45	61	61	45	45	51	53	51	61	51	56	66	59	50	56	62	68	66	66	65	67	55.2
Central Division.																																
Anchorage	Maximum ...	67	65	67	67	66	68	65	71	78	66	76	72	72	63	73	78	76	78	70	71	88	83	77	78	85	88	87	86	87	90	93	75.7
	Minimum ...	57	52	52	51	52	41	42	39	46	43	42	52	63	48	51	52	45	49	51	42	65	59	55	51	50	64	66	64	64	66	66	52.1
Bowling Green.....	Maximum ...	66	60	73	67	68	75	75	75	84	76	85	78	68	64	68	83	80	85	75	80	88	88	83	85	93	94	93	93	94	96	98	80.0
	Minimum ...	57	55	56	57	55	52	50	46	49	56	46	48	61	47	46	54	55	53	53	50	57	65	62	54	56	68	69	69	67	65	69	56.3
Danville.....	Maximum ...	72	68	68	60	65	65	70	69	77	73	74	73	67	61	63	80	75	75	70	72	90	87	81	78	86	92	90	86	87	90	95	76.0
	Minimum ...	55	45	51	48	50	45	46	43	44	51	41	52	55	46	46	42	50	48	54	51	50	62	55	46	50	61	61	68	59	55	54	51.1
Dix Dam	Maximum ...	72	70	67	63	64	65	73	70	91	70	75	75	66	63	62	79	76	76	74	78	89	88	81	80	86	90	90	89	87	93	95	77.3
	Minimum ...	57	52	55	53	52	47	47	41	55	54	42	52	58	50	50	51	50	50	56	54	44	65	59	55	48	66	70	70	69	57	64	54.3
Eubank	Maximum ...	75	65	69	63	67	66	71	75	80	70	82	73	68	68	65	80	76	75	71	75	89	86	78	83	87	86	89	91	91	95	95	77.0
	Minimum ...	55	46	61	48	50	47	38	36	41	41	44	42	56	45	40	47	45	45	49	49	45	62	56	45	59	55	57	59	61	65	60	49.6
Frankfort	Maximum ...	68	70	65	64	66	69	66	74	79	67	74	71	67	62	59	79	77	74	73	70	88	86	79	80	86	90	89	87	89	93	96	76.0
	Minimum ...	67	55	54	51	53	44	43	41	45	48	40	47	61	49	48	51	50	49	55	42	49	59	56	49	51	61	65	67	58	56	62	52.1
Glasgow	Maximum ...	65	60	65	65	60	66	64	63	60	62	73	62	65	65	62	60	75	66	64	71	90	85	80	83	85	92	89	88	90	90	95	72.8
	Minimum ...	57	52	53	54	53	45	50	45	41	54	44	56	56	44	41	51	60	60	49	48	54	65	60	51	65	52	65	60	70	62	85	55.0
Greensburg	Maximum ...	72	68	71	66	65	70	74	75	81	70	81	80	68	65	63	81	77	76	76	76	90	86	79	87	89	93	91	90	90	94	99	78.8
	Minimum ...	56	52	62	51	51	50	40	36	41	52	39	50	58	43	42	47	47	46	47	43	49	62	57	45	48	61	63	63	59	57	64	51.0
Irvington	Maximum ...	70	62	72	65	63	68	68	71	78	69	77	76	70	67	64	79	74	76	71	72	87	81	77	79	84	88	88	86	86	89	92	75.9
	Minimum ...	58	51	52	54	55	48	48	43	48	48	44	60	60	48	45	55	56	55	55	59	58	63	57	52	55	69	71	67	63	62	70	55.8
Leitchfield	Maximum ...	66	60	70	66	60	68	71	72	78	70	78	72	66	64	67	79	74	77	72	72	88	84	78	80	88	91	90	88	88	95	97	76.4
	Minimum ...	56	51	53	54	54	49	47	42	46	50	45	57	60	45	43	53	52	51	55	49	57	65	55	50	53	68	68	67	63	62	72	54.6
Lexington	Maximum ...	74	71	65	61	63	66	67	73	78	66	78	72	65	64	63	78	77	75	71	73	88	86	76	80	86	90	89	86	88	92	95	75.7
	Minimum ...	55	52	53	53	53	44	43	40	45	46	43	56	53	48	46	49	49	49	48	42	54	61	54	50	55	65	66	66	61	61	65	52.5
Louisville	Maximum ...	67	64	67	63	60	68	64	71	79	66	74	72	68	64	59	80	76	74	70	72	88	82	78	78	86	89	89	89	84	87	91	94	74.6
	Minimum ...	61	53	54	56	55	47	52	48	53	46	47	60	54	48	48	52	58	57	55	51	59	61	58	57	58	73	72	70	61	66	73	57.0
Mammoth Cave.....	Maximum ...	66	61	70	70	62	69	71	73	78	73	79	76	66	66	64	74	76	80	70	75	89	83	77	81	94	91	90	88	89	87	94	76.8
	Minimum ...	56	50	54	55	53	49	41	37	41	51	39	52	59	42	38	51	48	45	51	46	50	65	57	45	48	67	66	64	59	61	52	51.4
St. John	Maximum ...	66	62	68	66	64	66	71	69	78	71	76	76	70	63	61	80	77	75	69	72	88	84	76	73	87	91	91	89	87	91	96	76.1
	Minimum ...	60	49	52	55	55	47	45	41	46	48	45	56	56	45	43	50	49	51	51	48	59	62	57	50	52	65	69	63	63	60	67	53.4
Shelbyville	Maximum ...	67	70	66	63	65	66	64	68	77	68	76	70	67	63	59	80	72	70	69	70	85	83	73	78	84	87	86	85	86	91	93	74.2
	Minimum ...	58	54	53	54	52	48	45	42	48	46	43	58	59	47	47	51	50	52	53	44	53	59	56	50	53	65	66	68	60	61	68	53.3
Stearns.....	Maximum ...	71	66	64	70	66	66	70	71	78	72	82	72	66	58	61	77	73	80	68	75	88	87	75	80	86	78	86	80	85	90	91	75.2
	Minimum ...	50	49	44	48	52	52	42	40	44	55	42	55	58	49	46	47	56	49	59	44	52	64	59	52	54	64	64	64	60	58	66	52.8
Taylorsville	Maximum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum ...	63	71	71	59	65	65	65	71	71	68	76	76	68	60	60	76	76	75	70	70	88	88	82	79	82	91	91	87	91	94	97	75.7
	Minimum ...	55	51	53	52	52	40	49	43	49	45	43	52	59	49	44	50	50	50	52	44	44	63	56	55	57	67	66	68	60	61	67	53.1
Eastern Division.																																
Ashland	Maximum ...	61	75	74	68	61	64	64	69	69	64	62	76	69	58	56	73	74	69	65	64	86	86	78	73	84	90	91	88	86	91	93	73.6
	Minimum ...	51	44	54	50	53	47	42	41	45	50	38	47	60	53	49	50	50	48	54	50	61	67	57	48	51	50	50	67	60	55	82	51.1
Berea.....	Maximum ...	83	73	72	62	65	69	73	78	67	..	77	65	72	60	80	77	75	71	80	91	88	79	79	87	89	88	87	90	92	94	96	76.8
	Minimum ...	48	55	52	52	53	47	45	41	41	52	..	57	50	47	47	50	48	45	50	44	66	57	47	56	66	66	68	60	58	63	63	52.7
Cumberland.....	Maximum ...	70	74	75	77	65	66	67	68	70	78	80	78	72	63	65	75	75	78	71	73	88	86	81	80	87	88	85	85	90	89	85	76.6
	Minimum ...	48	48	54	50	52	51	43	42	40	39	36	48	60	54	47	45	60	42	58	42	54	60	50	52	49	54	63	61	60	58	60	51.0
Farmers.....	Maximum ...	71	78	78	73	64	65	64	71	77	75	77	77	67	59	61	77	84	71	72	76	89	89	82	82	85	90	92	89	87	93	92	77.5
	Minimum ...	53	41	51	51	51	46	46	36	47	39	48	36	42	55	50	45	46	45	41	53	36	43	57	55	42	45	56	62	61	54	53	48.1
Heidelberg	Maximum ...	74	76	68	68	64	67	61	66	78	71	78	71	67	61	67	80	78	76	70	74	90	89	77	81	88	89	89	89	87	93	91	76.6
	Minimum ...	53	43	54	52	52	51	39	39	42	56	38	44	58	54	49	47	48	45	61	41	44	59	59	45	48	57	65	64	60	56	58	51.0
Livingston	Maximum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Maysville	Maximum ...	69	77	70	67	65	64	67	70	75	66	77	75	67	57	59	77	74	68	69	73	88	88	75	80	85	90	90	85	85	92	93	75.1
	Minimum ...	53	46	52	52	52	44	41	38	43	49	37	43	55	48	45	48	47	42	53	38	44	51	55	51	49	57	61	65	56	55	55	49.8
Middlesboro.....	Maximum ...	64	55	52	..	49	52	39	41	42	51	39	44	60	54	48	47	52	45	59	40	46	64	60	54	59	47	56	65	62	61	57	62	52.0
	Minimum ...	75	77	65	65	65	65	65	70	78	67	78	76	67	58	60	78	78	72	70	70	91	88	76	80	82	90	90	89	86	91	96	76.0
Mount Sterling	Maximum ...	46	45	50	50	49	45	40	39	44	52	42	47	55	48	46	46	46	46	53	42	47	61	46	46	49	53	65	65	57	57	60	49.5
	Minimum ...	78	75	68	70	68	73	70	68	73	70	81	73	82	85	77	67	61	81	79	78	72	76	93	91	75	83	90	90	87	89	91	95	80.2
Pikeville	Maximum ...	53	48	52	51	53	54	43	47	45	54	40	45	58	57	49	48	52	46	58	42	45	58	60	56	52	51	62	62	62	60	58	52.2
	Minimum ...	72	78	71	79	62	67	73	67	80	70	82	85	72	63	64	78	75	73	73	74	..	..	40	52	48	57	61	62	59	59	56	449.7
Pippapass	Maximum ...	49	42	52	50	54	52	38	43	41	52	39	45	56	51	47	46	51	43	59	41	43	..	40	52	48	57	61	62	59	59	56	449.7
	Minimum ...	74	81	76	76	66	69	71	71	80	72	81	88	68	62	62	79	77	84	75	78	89	88	76	83	86	89	90	87	92	93	91	79.0
Quicksand	Maximum ...	48	39	52	51	51	49	38	42	41	52	36	42	55	49	47	44	47	42	49	38	42	58	55	48	47	48	55	59	60	60	56	48.7
	Minimum ...	72	75	70	68	60	65	70	67	73	75	72	78	70	65	60	60	76	76	73	70	70	86	87	76	80	84	90	88	86	90	90	74.9
Richmond.....	Maximum ...	56	53	53	54	52	46	48	43	48	53	45	60	58	50	47	50	52	52	55	45	55	55	57	52	58	66	67	68	62	62	67	54.5
	Minimum ...	72	68	69	74	67	70	74	75	82	74	81	75	71	61	65	80	77	81	72	79	90	90	77	82	89	94	90	85	89	92	93	78.5
Williamsburg	Maximum ...	62	49	53	50	55	59	43	44	45	57	42	53	57	53	49	49	53	43	56	45	51	65	62	52	52	62	68	65	62	58	65	53.9
	Minimum ...	72	68	69	74	67	70	74	75	82	74	81	75	71	61	65	80	77	81	72	79	90	90	77	82	89	94	90	85	89	92	93	78.5

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

', ", etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville 5-25-37 110°

Errata.—April 1937: Shelbyville, mean minimum page 16 should be 41.9 and mean page 14, 51.1.

1.05
KE
42
0.6

not Hist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., JUNE, 1937 No. 6

GENERAL SUMMARY.

The heavy rains in the first week followed a dry decade in the preceding month, therefore the effect was generally beneficial. This moisture was helpful in conditioning land not yet broken, and in providing the first opportunity for transplanting tobacco in the hilly districts. During the succeeding two weeks showers occurred too frequently to permit thorough cultivation of corn. They also interfered with the last corn planting. As a rule early corn received at least one plowing in this wet period, therefore weediness became serious only to a limited extent. In occasional fields the crop suffered from standing too long in grass and weeds before the first plowing. The long spell of showery and relatively cool weather provided exceptionally favorable conditions for transplanting tobacco and obtaining a stand. The abundant moisture after transplanting brought about vigorous growth, which made up to some extent for the delay in getting out the crop.

A decade with very little rain at the end of the month enabled farmers to push cultivation of all crops. This phase of farm work almost caught up with crop development. Normal or slightly higher temperatures at this time, in the presence of abundant moisture, caused rapid growth. Much corn remained undersized in the western counties, where the type of soil and the frequent rains operated together to delay planting.

The dry period favored uninterrupted progress with wheat harvest, and quickly cured the grain in shock. Threshing commenced as far north as the central counties in the last week. The first cutting of alfalfa was extensively damaged by rains. Plentiful subsoil moisture rapidly advanced the second crop. Late strawberries in northern districts suffered in quality. The same weather conditions benefited the oats crop, which was the best in many years. Potatoes had meager cultivation, but matured a good crop of tubers. Gardens developed somewhat slowly in the rainy period, but began to yield toward the close.

Cotton, likewise, grew slowly at first but made up largely for the delay during the last two weeks. Pastures continued exceptionally fine throughout the month. The favorable weather occurred at the appropriate time for stripping bluegrass seed. Considering the needs of all crops, the weather of the month was much more favorable than otherwise.

TEMPERATURE.

Variable temperatures, with daily means ranging from 10° below to 10° above normal, prevailed in the first half of the month. In the following two weeks daily averages were near normal, but decidedly cool weather returned on the last day. Because of less cloudiness and lighter rainfall temperatures at southwestern stations were relatively higher than in the northern counties. The extremes were 99° at Bowling Green on the 25th, and 46° at Greenville and Mammoth Cave on the 12th.

PRECIPITATION.

Precipitation averaged somewhat above normal, but the distribution was quite irregular. At some north-central stations and in the southeastern counties it ranged from 5.6 to 7.0 inches. Considerable areas in the central, western, and northeastern parts of the State received from 3.0 to 4.0 inches, while a few extreme northern and western stations reported less than 3.0 inches. Light to heavy showers occurred generally in the periods 2d-7th, 9-11th, and 14-18th. Showers were reported from most eastern stations on the 22d, and locally in central and eastern districts from the 25th to 30th. The heaviest rain fell in most sections in the period 10-11th. For the State precipitation ranged between 2.51 inches at Vanceburg and 7.09 inches at Shepherdsville. Days with thunderstorms were 1, 2, 3, 4, 5, 6, 9, 10, 13, 14, 15, 16, 17, 18, 21, 24, 27, 29.

MISCELLANEOUS.

June 3.—Trees and roofs in Jefferson County were damaged by high winds, with a loss estimated at $25,000. Electrical equipment was extensively damaged by lightning.

June 4.—Excessive rains in the vicinity of Midway damaged crops and tobacco plantbeds by washing of soil.

June 7.—Washouts of railway and highway bridges and damage to bottom lands in Perry County were estimated at $35,000.

June 14.—A man was killed by lightning while in the open near Hodgenville. A horse he was leading was also killed.

Rivers.—A moderate rise that started in the upper Ohio on the 23d passed into the lower section of the river by the end of the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)				Wind.				Relative humidity			Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo ..... Ill.	29.94	30.28	11	29.68	4	7.2	28	so.	3	81	57	60	73
Cincinnati .....Ohio	30.96	30.30	11	29.67	29	6.1	25	sw.	9	84	59	65	67
Evansville..... Ind.	29.95	30.29	12	29.68	4	7.7	42	sw.	9	75	55	55	70
Louisville .....Ky.	29.97	30.31	11	29.67	29	8.9	45	ne.	3	78	62	62	66

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	70.6	99	38	5.27	..	..	..	..	..
1890	78.4	101	51	4.96	..	..	..	..	..
1891	77.1	97	51	4.48	..	..	..	..	..
1892	75.8	101	48	4.23	..	..	..	..	..
1893	73.3	97	48	4.64	..	..	..	..	..
1894	75.6	102	35	2.69	..	..	..	..	..
1895	75.9	104	47	3.63	0	9	15	10	5
1896	73.5	98	46	4.64	0	10	11	12	7
1897	73.4	101	41	3.61	0	9	14	12	4
1898	76.2	101	45	3.90	0	9	15	12	3
1899	76.1	100	44	2.80	0	8	15	10	5
1900	73.9	100	40	6.14	0	14	8	12	10
1901	75.6	104	42	3.97	0	9	15	9	16
1902	73.4	101	39	4.75	0	11	13	9	8
1903	68.6	96	37	3.61	0	10	14	8	8
1904	73.2	99	48	3.14	0	11	14	10	6
1905	74.8	106	45	4.49	0	10	16	6	8
1906	73.9	99	42	4.53	0	11	14	8	8
1907	70.2	95	41	4.91	0	11	12	9	9
1908	73.4	102	43	4.36	0	7	17	8	5
1909	74.5	99	43	5.03	0	14	10	11	9
1910	70.0	99	36	5.20	0	10	15	8	7
1911	75.2	106	45	4.06	0	10	17	7	6
1912	70.2	95	38	3.48	0	10	13	8	9
1913	75.0	107	38	2.87	0	7	19	6	5
1914	78.3	108	45	2.60	0	5	18	8	4
1915	71.7	95	42	4.79	0	12	12	10	8
1916	70.1	99	45	4.94	0	11	13	10	7
1917	70.9	100	39	4.30	0	10	15	9	6
1918	73.6	104	37	3.63	0	8	16	8	6
1919	76.7	103	51	4.00	0	10	14	10	6
1920	71.9	100	44	3.12	0	7	17	6	7
1921	77.8	100	46	2.90	0	8	14	11	5
1922	75.4	100	44	3.10	0	9	14	10	6
1923	73.8	99	42	4.59	0	9	16	8	6
1924	74.2	99	42	4.39	0	12	13	10	7
1925	77.0	105	48	3.90	0	7	16	8	6
1926	70.9	98	42	3.45	0	8	15	9	6
1927	70.4	98	42	4.13	0	11	14	8	8
1928	69.5	93	45	10.88	0	18	7	10	13
1929	71.7	97	37	4.11	0	9	17	7	6
1930	73.1	104	38	1.76	0	6	19	7	4
1931	75.3	106	39	2.80	0	8	17	8	5
1932	74.8	103	40	4.88	0	11	13	10	7
1933	76.5	105	39	1.57	0	4	21	2	7
1934	77.4	105	50	4.58	0	6	27	2	1
1935	70.5	96	44	7.50	0	14	11	10	9
1936	76.1	110	40	0.81	0	3	21	6	3
1937	74.3	99	46	4.52	0	10	18	6	6
Period	73.9	110	35	4.13	0	10	14	9	7

†49-year averages.

Climatological Data for June, 1937.

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind	Observers
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall unmelted	With precip. 0.01 in. or more	Clear	Pt. cloudy	Cloudy		
Western Division.																				
Birmingham	Marshall										4.20		1.72	0	6					Tennessee Valley Authority.
Calhoun	McLean	457	33			95	23				4.82	+0.96	2.03	0	10	4	25	1	sw.	W. A. Taylor.
Earlington	Hopkins	420	47	76.6	+ 0.8	96	1†	50	12	35	4.19	+0.37	1.42	0	8	18	9	3	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8								5.33		1.20	0	11					Lockmaster.
Greenville	Muhlenburg	519	20	73.6	− 0.9	95	25	46	12	31	3.85	−0.31	1.45	0	5	16	14	0	s.	C. R. Lovell.
Henderson	Henderson	382	23	75.3		97	25	49	12	33	4.52	+0.65	1.34	0	9	18	11	1	s.	Frank Street.
Hopkinsville	Christian	524	41	76.0	+ 0.6	97	25	53	12	32	2.66	−1.83	1.32	0	8	19	11	0	s.	W. K. Morris.
Lovelaceville	Ballard		8	75.2	+ 0.3	96	25	51	12	36	2.74	−1.34	0.80	0	6	16	13	1	s.	Blaine Malone.
Mayfield	Graves	364	28	76.1	+ 1.1	96	1†	55	12	29	4.09	+0.29	1.09	0	9	15	15	0	s.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	74.2	+ 0.1	95	25	53	31	29	4.98	+1.07	1.49	0	9	16	9	5	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4								4.24	+0.12	0.97	0	9					Lockmaster.
Paducah **	McCracken	516	20	75.4	− 2.5	95	1†	51	12	31	2.80	−1.42	1.55	0	5	20	6	4		Joe Lavore.
Princeton	Caldwell	529	30	76.8	+ 1.5	98	1†	54	12	31	4.05	−0.05	1.05	0	13	7	22	1	n.	Dr. W. L. Cash.
Ramsey, Lock 2‡	McLean	384	20								5.20	+1.59	2.32	0	10					Lockmaster.
Russellville	Logan	590	26	*75.6	+ 1.0	95a	1	52	12	38a	5.59	+1.95	1.86	0	10	18	5	7	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9								4.16	+0.43	0.99	0	12					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								4.01	+0.11	0.99	0	9					Lockmaster.
Anchorage	Jefferson	700	36	72.5	+ 0.4	93	26	48	12	32	5.25	+1.58	1.68	0	9	13	14	3	sw.	C. E. Barret.
Bowling Green	Warren	500	48	76.9	+ 0.9	99	25	55	12	33	3.21	+0.85	1.05	0	8	14	13	3	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20								5.87	+1.63	1.99	0	12					Lockmaster.
Glasgow	Barren	780	11	74.6		98†	1	53†	12	30†	4.73	+0.54	1.76	0	11					T. A. Lewis
Grand, Dam 33	Boone	780	12								2.77	−0.98	0.93	0	7					Lockmaster.
Greensburg	Green	581	41	74.6	+ 1.4	97	1†	48	12	36	3.92	−0.06	0.94	0	10					Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	514	38								4.72	+0.29	1.57	0	10	4	3	23	s.	Lockmaster.
Irvington	Breckinridge	646	39	74.4	+ 0.4	92	25	52	12	29	3.71	−0.33	1.06	0	13					
Lancaster	Garrard	1032	11								5.20	+1.19	2.42	0	9	12	9	9	sw.	W. J. Piggott.
Leitchfield	Grayson	635	41	75.0	+ 1.7	95	26	52	12	31	4.25	−0.96	1.60	0	11					Walter Killion.
Lexington	Fayette	989	53	75.4	+ 3.2	95	1	50	12	33	3.89	−0.20	1.90	0	7	9	13	3	sw.	H. H. Willis.
Littlelickman, Lock 8	Jessamine	560	26								5.80	+1.75	1.17	0	13	12	13	5		U. S. Weather Bureau.
Lockport, Lock 2	Henry	485	27								4.24	−0.10	0.95	0	10					Lockmaster.
LOUISVILLE	Jefferson	459	64	75.1	+ 0.4	92	1	55	12	25	4.69	+0.31	1.05	0	10					Lockmaster.
Mammoth Cave	Edmonson			72.6		93	26	46	12	35	4.14	+0.32	1.48	0	8	6	17	7	n.	U. S. Weather Bureau.
Mt. Jonn	Hardin	777	41	74.2	+ 1.7	95	1†	51	12	30	3.75		1.03	0	13	14	13	3	sw.	Ivan J. Ellsworth.
Salvisa, Lock 6	Mercer	520	23								4.60	+0.34	1.43	0	9	22	4	4		Sisters of Loretto.
Shelby	Shelby	805	48	72.8	− 0.5	91	1†	51	12	39	4.97	+0.55	0.75	0	11					Lockmaster.
Shelbyville	Pullitt	500									5.34	+1.33	0.86	0	11	9	2	9	n.	Miss RuthRatta,
Shepherdsville	Warren	607		74.6		96	1	53	12	32	7.09		1.99	0	9	10	12	8	sw.	A. McLeod.
Smith's Grove	McCreary	1400	35	72.8		90	25	52	12	30	4.52		1.23	0	13					Airway Station.
Stearns	Anderson	524	19								5.39		2.01	0	15					Geo Wright
Tyrone, Lock 5	Grant	943	34	73.1	+ 0.9	97	1	53	12	31	5.38	+0.81	0.85	0	13					Lockmaster.
Williamstown	Butler	504	20								4.01	+0.38	0.70	0	10	15	7	8	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4											3.92	−0.48	1.30	0	9					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								2.76		0.97	0	13	2	18	10	nw.	W. A. Worthington.
Ashland	Boyd	534	18	72.5	− 0.8	96	2	53	12	30	4.55	+0.33	0.95	0	12	13	4	13	w.	Lockmaster.
Barbourville	Knox	1050																		Mrs. Ralph Tuggle.
Berea	Madison	1070	32	74.5	+ 1.6	92	1†	49	12	32	3.91	−0.59	1.06	0	11	8	16	6	ns.	Luther M. Ambrose.
Burkesville	Cumberland	590																		C. D. Norris.
College Hill, Lock 11	Madison	611	27								4.23	+0.12	1.10	0	10					Lockmaster.
Cumberland	Harlan	1440		72.3		91	1†	52	12	32	4.49		1.20	0	12	17	8	5	nw.	C. Bertrand Fields,
Cynthiana	Harrison	684	19								2.62	−0.75	0.65	0	7					P. H. Kehoe.
Falmouth	Pendleton	600	48								3.47	−0.61	0.78	0	13					J. W. Kilham,
Farmers	Rowan	668	29	72.4	+ 1.1	95	1	47	12	35	5.01	+0.71	0.99	0	10	11	12	7	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12								5.59	+1.49	1.86	0	10					C. A. Glascock.
Ford, Lock 10	Clark	637	21								3.26	−0.48	0.55	0	12					Lockmaster.
Greenup, Dam 30	Greenup	1197	9								7.33	+3.91	2.75	0	13					Lockmaster.
Hazard	Perry	869	13								6.02	+1.84	1.50	0	14	4	15	11	sw.	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	74.0		94	26	54	12†	33	5.41		0.68	0	12					Lockmaster.
Jackson	Breathitt	840	17								5.61	+1.60	1.16	0	13					Jas. T Goff.
Jenkins	Letcher	776									4.42	−0.34	0.92	0	12					R. J Howard,
Louisa	Lawrence	584	33								4.08	+0.03	0.97	0	14	4	22	4	sw.	B. H. Griffin.
Maysville	Mason	524	17	72.2	− 0.7	91	5†	51	12	33	6.59	+1.97	1.95	0	13	15	15	0		Lockmaster.
Middlesboro	Bell	1128	40					54	8†		4.51	−0.14	1.45	0	7	10	16	4	w.	Mathew Woodson
Mount Sterling	Montgomery	930	41	73.4	+ 0.9	94	1	47	12	33	4.38		0.91	0	9					W. R McKee.
Oneida	Clay		47								3.77	−0.53	1.02	0	12					Joe L. Gay.
Oneonta, Dam 35	Campbell	497	10								5.46		0.76	0	14					Lockmaster.
Paintsville	Johnson	567	3								4.75	+0.65	1.38	0	12					Manuel Robinson.
Pikeville	Pike	636	31	75.3		95	26	56	12	34	5.46		1.54	0	16	8	8	14		U. S Weather Bureau.
Pippapass	Knott	1035	3					54§	12		4.71	+0.61	0.71	0	14					Caney Run Com. Cen.
Quicksand	Breathitt	732	11	73.2	+ 1.1	93	26	52	12	31	4.46	−0.05	0.66	0	11					R. W. Jones.
Ravenna, Lock 12	Estill	631	19								5.73	+1.65	1.80	0	9	13	0	17		Lockmaster.
Richmond	Madison	926	46	73.6	+ 0.1	93	1	52	12	23	5.62	+0.32	1.00	0	11					A. W. Crooke.
Valley View, Lock 9	Madison	571	24								2.51	−1.46	0.72	0	12					Lockmaster.
Vanceburg, Dam 32	Lewis	525	22											0		18	10	2		John W. Stephens.
Williamsburg	Whitley	939	38	75.2	+ 1.3	94	14	56	7†	33	5.79	+1.44	1.30	0	12					Lockmaster.
Willow, Lock 13	Lee	646	20								4.94		1.23	0	14					Airway Station.
Winchester	Clark	964		72.8		92	1	50	12	28	4.52	+0.39	5.01	0	10	18	6	6	sw.	
State averages and extremes				74.8	+ 0.4	99	25	46	12	39										

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, s, †, *, appearing in the table indicate number of days missing; for example, 5 represents two days, etc. §Lone Oak.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

* Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for June, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.				1.18	.32					1.72						.16		.43												.30		4.20
Calhoun G.	.01	.64	2.03	.65	.17	T.			.07	.81							.08	.11	.26										T			4.32
Earlington G.			.03	1.42	.04	.54	T.			1.22	T.					.05		.40														4.15
Fords Ferry Dam 50‖ O.		1.02	.02	.60	.14	.47			T.	.87	.05					T.		1.20	.71							T.	.03	T		.49		5.23
Greenville G.		T.	T.	1.45	.40					1.45							.20		T.											.22		5.35
Henderson O.		T.	1.10	.46	.45				.52	1.31							.84	.11	.05											.15		4.52
Hopkinsville C.			.13	.57	.53				.13	1.32						.04	.07		.07													2.06
Lovelaceville M.			.60	.50	.12				.50	.90							.52															2.74
Mayfield M.		.03	1.09	.28	.92	T.			.47	.86						.05	.36									.03						4.69
Owensboro O.			.86	1.49	.37	.67	T.	T.	.08	.67	.03							.41	.46											T.		4.98
Owensboro, Dam 46‖ T.			.80	.97	.23	.51	T.		.06	.58	.05							.53	.49											T.		4.24
Padueah O.				T.	.98	.20	.22	T.		T.	1.35								.10							T.						2.80
Princeton G.	T.	.05	.12	.55	.49	.01			.22	1.05						.11	.13	.83	.43							.01			.05			4.05
Ramsey, Lock No. 2‖ G.		.03	2.32	1.49	.12	.14	.02			.70	.12							.10	.26													5.20
Russellville G.			.48	1.86	.02	.08				1.00	.02							.68	1.07	.09		.29										5.59
Uniontown, Dam 49‖ O.		.04	.99	.64	.22	.29			.02	.83	.11					T.	.01	.52	.38									.11				4.16
Central Division																																
Addison, Dam 45‖ O.			.07	.99	.66	.35				.62	.39					T.		.18	.33			T.								.52		4.01
Anchorage O.			.62	.31	.32	.15			T.	.84							1.68	.57	.13		.63											5.25
Bowling Green G.			.68	1.05	.05	.08	.03			1.00							.12	.20	T.													3.21
Brownsville, Lock No. 6‖ G.			1.99	.59	.65	.07	.02			.88	.06					.06	.01	1.03		.40		.11										5.87
Burnside‖ C.			.35	.32	.41		.19			1.70	.60							.43	.27	T.		.09				.24		T.	.04			4.73
Carrollton‖ (Lock No. 1) K.			.94		.46	.04	.06			.44	.18					.54		.68		.32				.36								3.92
Cold Spring, Dam 36‖ O.			.78		.86	.94	.35			.09	.53					.40	.10		.08			.03		T.	T.				.04			3.70
Danville K.		.02	.16	.04		.07	.45			1.45						.35		.29	.21	.26		.34		T.		.15			.03			3.81
Dix Dam, Burgin‖ K.	.29		.10		.10	.18			1.05	.24						.73		.31	.53						.01							3.54
Eadsville‖ C.																																
Eubank C.																																
Frankfort K.				.86	.02	.57	.36			.78	.74							.13	.07			.21			.02				T			3.74
Gest, Lock No. 3‖ K.			.36	.19	.34	.26	.15			.45	.56					.43		.95	.20			.46			T.							4.35
Glasgow G.		.95	.60	.65		.68				1.30						.15	.50				.55											5.88
Grant, Dam 38‖ O.				.11		.21				.10	.58				.45			.39	.93													2.77
Greensburg G.			.55	1.08	.05	.26	.01			.91							.41	1.57	.05			.08										4.72
High Bridge, Lock No. 7‖ K.			.29	.12	.02	.04	.40			.41	.37					1.06		.28	.40	.01		.28			.03							3.71
Irvington O.		T.	2.42	.69	.26	.21			.03	.82				T.	T.	.48		.27			T.								.02	T.		5.20
Lancaster‖ K.	.03	1.60	.05			.50			.70	.25				.08		.06		.45			.48								.05			4.25
Leitchfield G.		.85	.98	.30	.15				.06	1.90						.15													T.			3.89
Lexington *** K.		.73	.15	.77	.62	.19	T.		T.	1.17					.04	.01	.55	.40	.17			.69		T.		T.			.01			5.80
Little Bickman, Lock No. 8‖ K.		.10	.67	T.		.35	.50			.95	.28					.10		T.	.43					.34								4.24
Lockport, Lock No. 2‖ K.			.87	.34	.37	.20	.21			.54	.46							1.05	.12			.47		T.								4.69
LOUISVILLE*** O.		.60	.88	.26	.28	.06			T.	.61						1.17	.28				T.					.52						4.14
Mammoth Cave G.		.15	.48	.52	.02	.04	.01		.02	1.03	.01			T.		.60	.10	.76				.01							T.			3.75
St. John S.			.39	.53		.18				.98	.73					.05		1.43	.03											.28		4.60
Salvisa, Lock No 6‖ K.			.75	.21	.65	.70	.18			.70	.30							.24	.44	T.		.48								.32		4.97
Shelbyville S.	T.	T.	.81	.70	.30	.03	.10			.61	.86							.66	.50			.52			.25							5.34
Shepherdsville S.			1.99	.43	.42	.18			.06	1.79						.27	.06	1.89														7.09
Stearns	.03	.47	.44	.63	.13				.97	2.01					.07	.13	.13	.04	.02			.32						.05	.02			5.36
Smith's Grove		.57	.60	.15	.04	.01			.36	.38							.09	1.23	.20			.24	.63						.02			4.52
Tyrone, Lock No. 5‖ K.			.76	.65	.65	.40	.44			.45	.68					.20		.85	.65				.10			.02				.03		5.38
Williamstown L.		.16	.15		.70		.37			.60	.58					.53		.22	.50			.20								.03		4.01
Woodbury, Lock No. 4‖ G.			1.18	1.30	.04	.11				.98	.06							.10				.12								.03		3.92
Eastern Division																																
Annville T.		.05	.12		.10	.28				.25	.97					.04	.20	.08	.30			.14				.17			.06			2.76
Ashland‖ O.		T.			.11	.38	.36			.17	.98					.15		.14	.81	T.		.65			.18	.48			.14			4.55
Barbourville C.																																
Berea K.		.13	.01			.12	.79		.01	1.06																						
Burkesville																.32		.49				.35							.20			3.91
College Hill, Lock No. 11‖ K.		.28	.38			T.	.66			1.10	.17					.85		.03	.48			.18				.13						4.23
Cumberland C.			.10	.52		.57				.12	1.20					.62		.15	.02			.68										4.49
Cynthiana‖ L.	T.	T.	.65	T.		.12	T.			.23	.65					.20		.55	T.			.20				.06			T.	.27		4.49
Falmouth‖ L.		.04	.10	.19	.58	.27	.02			.16	.66			T.		.24		.73	.32			.10					.06			T.		3.47
Farmers‖ L.	.26		.14	.16			.27			.98	.45							.63	.99			.70								.43		5.01
Fleminsburg‖ L.		.02	.24		.40		.66				1.05					.42		.10	.34			.24		.16								3.83
Ford, Lock No. 10‖ K.			1.86		.13	.05	.16			.86	.44					.73		.24	.91		.06	.32		T.	T.	T.			.10			5.50
Greenup, Dam 30‖ O.	.08			.12	.55	.52	.08			.02	.42					.44		.16	.09			.48				.15			.15			3.26
Hazard K.		.05	.10	.30		.40	2.75			.15	1.05					.33	.12	.42	.33	.35		.53							.45			7.38
Heidelberg, Lock No. 14‖ K.		.31	.57	.61	T.	.05				.35	.92					.07		.18	.21	.16		.49				1.50	.15		.45			6.02
Jackson K.		.50	.18			.65				.32	.65					.58		.68	.30	.37		.38				.15			.65			5.41
Jenkins‖ B.			.66	.17			.98	.03		2.41	1.10	.02				.78		.04	.03		.68	.56					.21					5.61
Louisa‖ B.			.45	.15		.08	.23			.20	.44					.45		.23	.92			.47				.10			.70			4.42
Maysville‖ O.	.07	.23	.03		.97	.23	.15			.14	.65					.58		.35	.21			.24			.20	.03						4.08
Middlesboro C.		1.28	.36	.15	.03		.08			1.95						.92	.05	.14				.55				.25	.65		.18			6.59
Mount Sterling L.		.61	1.20	.10	T.	T.			T.	1.45						.25	.20			.70			T.	T.								4.51
Oneida C.	.46		.23				.32			.47	.91						.64	.80			.49					.06						4.38
Oneonta Dam 35‖ O.		.36	1.02	T.	.19	.09	.02			.07	.43			.12		.11		.78	.48			.10			T.	T.						3.77
Paintsville‖ B.		.37	.21	.33		.43	.54				.56					.17		.56	.76	.09		.72				.06	.21		.45			5.46
Pikeville‖ B.		T.	.32	.01		.08	.71			.50						.82	T.	.21	.20			1.38			.02		.07		.43			4.75
Pippapass K.		T.	.10	.28	T.		1.54			.86	.02		.01			.40	.06	.45	.03			.70		.01	.02		.68	.01	.29			5.46
Quicksand‖ K.		.40	.50	.36		.06	.14		.35		.40					.44		.71	.23	.21		.26				.15			.44			4.71
Ravenna, Lock No. 12‖ K.		.03	.50	T.		.66	.28			.58	.33					.46		T.	.66			.20				.55			.21			4.46
Richmond K.			1.80				.75			1.20	.25					.80		.80	.30			.30			.03							5.78
Valley View, Lock No. 9‖ K.		T.	.72	.02		.08	.40			.60	.47					1.00		.75	.85		.08				T.	.05			T.			5.02
Vanceburg, Dam No. 32‖ O.		.03		.06	.33	.07	.13				.72					.42		.10	.31			.21				.12			.02			2.51
Williamsburg‖ C.																																
Willow, Lock No. 13‖ K.		.08	1.80	T.		.28	.06			.50	.80							.18	.78			.40				.48	.12		.81			5.79
Winchester		1.23	.16	.33	.02	.04	T.			.92	.65	.06	.29	.23	.59						.22					.68			.12			4.94

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

; Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. * Lone Oak.

Daily Temperatures for June, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.	Maximum	92	92	82	83	81	78	81	84	80	77	68	81	86	88	85	86	85	85	85	93	90	87	95	92	94	91	85	86	83	76	..	85.0
Calhoun	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	96	92	88	87	83	83	85	85	82	82	76	85	90	91	86	91	88	89	89	94	96	93	92	94	96	94	90	89	88	74	..	88.3
Earlington	Minimum	67	69	68	65	69	68	59	52	65	62	62	50	58	74	71	66	66	68	66	93	90	85	87	91	95	92	88	85	84	73	..	65.1
	Maximum	94	91	85	84	81	78	79	82	80	77	70	80	86	92	85	87	89	86	83	90	90	85	87	91	95	92	88	85	84	75	..	62.0
Greenville	Minimum	66	66	64	62	68	63	58	51	62	60	60	46	55	72	67	64	66	65	61	60	69	62	58	61	65	70	61	66	56	56	..	87.1
	Maximum	96	95	89	85	83	78	82	85	81	72	75	81	88	91	89	89	87	87	87	94	94	88	93	94	97	94	87	87	90	75	..	63.5
Henderson	Minimum	68	65	66	66	68	66	56	55	55	65	61	59	49	59	72	68	64	65	66	59	65	74	64	60	65	68	70	72	67	60	54	87.1
	Maximum	94	94	85	85	80	80	81	86	82	82	74	82	89	88	88	89	88	90	86	95	92	86	91	94	97	92	91	88	88	75	..	87.1
Hopkinsville	Minimum	68	69	67	65	70	66	61	54	66	63	60	53	59	69	69	67	67	70	67	64	70	65	60	66	66	71	72	69	61	56	..	65.0
	Maximum	95	92	87	88	83	80	82	85	80	77	74	81	88	88	88	87	87	91	88	94	92	88	92	95	96	91	90	86	88	74	..	63.5
Lovelaceville	Minimum	65	68	65	65	66	67	65	52	67	61	64	51	60	70	66	65	65	67	68	68	70	65	58	59	63	67	68	65	60	54	..	87.0
	Maximum	96	94	88	84	81	80	81	85	82	80	73	84	88	89	86	86	86	86	87	92	95	88	90	92	96	90	95	85	89	80	..	87.0
Mayfield	Minimum	70	68	66	65	66	67	60	59	59	62	60	55	64	71	66	67	67	68	68	69	71	65	62	64	67	69	70	70	64	57	..	65.2
	Maximum	92	91	82	84	83	78	81	82	79	74	70	79	88	86	86	87	82	83	85	91	91	81	88	91	95	91	86	86	86	78	..	84.5
Owensboro	Minimum	65	67	66	64	66	66	60	58	63	60	58	63	58	70	68	66	66	64	61	62	62	66	61	64	68	68	72	67	61	53	..	63.8
	Maximum	95	91	86	82	81	79	82	84	81	78	73	81	83	85	89	85	88	91	89	94	93	91	90	92	95	85	90	87	89	77	..	86.2
Paducah	Minimum	67	69	66	66	68	68	66	53	69	62	61	51	68	69	67	65	68	69	68	68	73	63	59	61	65	67	70	63	59	56	..	64.5
	Maximum	98	91	90	85	83	81	86	85	85	74	74	85	91	91	85	87	87	89	89	96	94	87	93	95	98	87	87	88	84	77	..	87.5
Princeton	Minimum	67	72	68	66	69	67	60	55	68	63	63	54	60	73	71	67	65	69	67	67	72	67	62	65	67	73	75	70	66	57	..	66.2
	Maximum	95	93	86	87	84	83	80	86	80	78	70	90	87	88	87	88	88	89	83	92	91	84	90	92	..	91	91	88	86	73	..	*86.2
Russellville§§	Minimum	69	69	66	63	69	67	60	58	61	64	60	52	59	71	69	68	67	69	66	62	72	65	61	63	63	71	72	69	69	57	..	65.0
Central Division.	Maximum	91	88	82	83	85	83	77	83	81	69	68	78	85	90	87	86	88	82	80	90	89	88	87	87	90	93	91	89	88	76	..	84.5
Auenorage	Miuimum	65	65	63	62	67	65	58	52	58	51	52	48	55	58	63	65	65	62	57	59	68	58	63	68	69	68	63	57	53	..	..	60.5
	Maximum	97	94	85	83	84	86	85	90	83	80	73	84	91	92	92	88	90	85	84	95	91	89	94	97	97	95	90	80	..	..	..	89.2
Bowling Green	Minimum	71	71	68	66	68	71	67	64	58	66	64	63	55	60	70	69	60	68	70	65	64	72	68	65	66	69	74	75	73	65	60	64.6
	Maximum	93	90	83	86	86	85	79	85	85	79	70	90	88	90	85	86	86	84	82	90	88	87	85	87	91	91	88	87	84	83	..	85.2
Danville	Minimum	65	66	63	63	65	63	59	52	59	61	58	48	54	65	66	63	66	67	60	58	66	60	59	60	61	64	69	66	54	56	..	61.3
	Maximum	93	92	80	85	87	85	80	86	85	82	68	80	88	91	90	87	85	85	87	92	90	89	86	88	92	91	89	90	87	85	..	86.5
Dix Dam	Minimum	67	68	67	66	69	67	61	54	60	62	60	50	56	70	69	65	69	69	72	60	70	60	60	70	63	70	69	67	59	50	..	64.0
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Eubank	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	95	93	85	85	88	84	82	86	84	81	73	81	86	90	88	88	88	83	85	85	90	90	88	86	89	93	93	90	89	87	76	..	86.4
Frankfort	Minimum	65	67	66	65	68	66	61	63	60	60	59	51	55	68	65	63	68	66	60	60	69	58	58	61	63	69	71	77	57	58	..	63.2
	Maximum	98	94	88	85	87	82	79	85	83	75	71	82	85	89	90	90	85	85	85	87	90	..	..	..	..	..	..	..	..	..	..	..	†85.5
Glasgow	Minimum	68	68	65	64	65	68	55	58	70	60	63	53	58	60	67	65	66	68	65	68	64	..	..	..	..	..	..	..	..	..	..	..	†63.6
	Maximum	97	94	86	87	87	87	83	85	85	78	75	82	91	90	89	88	87	87	85	92	90	88	90	90	94	97	94	87	87	79	..	87.7
Greensburg	Minimum	65	66	63	63	67	62	60	52	60	61	57	48	55	64	67	62	65	68	59	60	65	60	58	61	63	69	68	65	56	56	..	61.5
	Maximum	91	89	83	83	88	77	78	82	79	75	67	78	86	88	86	87	81	83	81	90	89	88	87	89	92	93	91	89	84	73	..	83.7
Irvington	Minimum	69	68	66	65	70	67	62	57	65	61	59	52	59	74	69	67	67	68	61	63	74	64	62	66	70	73	73	67	61	55	..	65.1
	Maximum	94	93	81	84	85	80	79	84	80	75	70	79	88	89	85	88	88	83	83	92	92	86	89	93	94	95	88	87	85	74	..	85.4
Leitchfield	Minimum	70	68	65	65	70	66	60	55	64	61	60	52	57	72	68	66	67	68	60	62	70	67	62	68	69	73	73	66	61	55	..	64.7
	Maximum	95	90	84	85	89	85	80	84	85	71	70	83	87	90	85	90	83	84	82	90	90	85	84	86	92	93	87	86	86	75	..	88.5
Lexington	Minimum	68	65	64	64	67	63	57	55	64	60	52	50	61	69	66	64	68	63	61	64	69	62	63	65	71	67	65	60	58	..	..	62.4
	Maximum	92	89	80	81	86	79	79	84	82	68	70	80	86	89	88	86	82	82	79	90	90	85	85	88	90	92	86	85	86	71	..	83.5
Louisville	Minimum	75	69	63	67	69	67	64	60	65	60	58	55	62	75	72	66	67	68	64	66	75	70	68	68	71	76	73	69	64	56	..	66.7
	Maximum	91	92	86	82	84	82	79	85	80	73	72	80	88	89	80	88	84	85	82	90	91	85	87	89	92	93	91	89	84	73	..	84.9
Mammoth Cave	Minimum	61	62	61	61	64	64	58	50	57	61	54	46	53	71	61	60	66	59	56	56	69	60	56	60	62	67	64	66	67	56	..	60.2
	Maximum	95	91	86	82	84	82	79	85	79	75	69	78	88	89	88	87	85	86	80	89	90	86	87	90	91	95	89	89	85	75	..	85.8
St. John	Minimum	67	70	65	64	68	64	60	55	63	60	59	51	56	72	74	65	65	67	59	60	72	61	60	63	66	71	70	65	59	51	..	63.5
	Maximum	91	89	83	82	84	80	79	84	79	74	69	80	83	87	82	88	79	80	79	87	89	83	85	86	91	90	84	83	82	77	..	83.0
Shelbyville	Minimum	68	68	65	64	68	64	56	54	62	59	57	51	56	68	65	65	66	65	59	61	69	62	61	62	64	70	71	67	60	54	..	62.7
	Maximum	96	92	88	84	86	84	82	86	82	78	71	82	90	88	89	90	86	87	84	92	91	86	83	87	90	86	82	81	72	70	..	84.8
Smith's Grove	Minimum	69	69	65	65	70	66	62	55	64	62	60	53	58	69	67	65	66	69	62	60	69	68	62	63	66	71	71	68	62	57	..	64.4
	Maximum	90	88	83	84	83	83	76	84	82	77	71	82	86	88	84	85	82	88	82	87	87	80	84	86	90	90	88	88	82	74	..	83.5
Stearns	Minimum	65	66	63	62	66	64	62	58	58	66	57	52	58	66	64	62	64	66	63	57	63	60	59	62	60	70	70	68	59	60	..	62.2
	Maximum	97	94	82	75	75	72	81	81	86	70	75	79	81	86	83	83	76	77	89	83	87	88	78	86	90	90	88	88	86	60	..	83.3
Williamstown	Minimum	67	67	65	64	67	65	60	54	61	59	56	53	57	71	63	63	67	65	60	61	71	60	60	63	65	71	71	65	60	55	..	62.9
Eastern Division.	Maximum	96	92	82	83	92	90	78	85	90	74	69	78	82	91	85	81	80	78	72	85	85	82	73	74	80	84	83	77	82	80	..	82.3
Ashland	Miuimum	66	67	65	68	65	64	67	56	57	67	60	53	56	67	63	62	67	67	62	60	71	64	54	59	53	67	70	62	58	60	..	62.7
	Maximum	92	91	83	88	89	86	92	85	84	79	72	81	88	91	84	89	86	85	82	89	91	84	83	85	91	92	90	87	84	76	..	85.9
Berea	Minimum	69	66	65	64	70	66	62	54	61	62	58	49	58	71	67	64	68	68	61	62	59	58	59	62	61	70	67	66	67	58	..	63.1
	Maximum	91	91	85	88	89	80	82	85	78	72	72	82	88	89	89	86	83	82	81	84	87	84	82	85	86	88	86	81	79	..	..	84.4
Cumberland	Minimum	62	61	56	63	61	60	58	51	54	66	60	52	54	58	64	64	64	62	63	56	60	54	54	57	60	62	74	76	56	55	..	60.2
	Maximum	95	92	82	81	92	88	81	85	87	79	77	81	85	90	91	90	83	85	82	90	90	88	83	82	86	94	90	85	86	80	..	85.8
Farmers	Minimum	62	63	60	61	61	63	60	50	52	59	56	47	49	60	61	67	65	63	57	56	64	55	55	57	58	64	68	62	56	58	..	59.0
	Maximum	92	90	81	89	87	79	86	85	79	71	81	87	89	85	90	83	85	82	80	90	88	85	87	87	94	90	86	83	76	..	..	85.5
Heidelberg	Minimum	64	65	65	64	63	65	65	64	56	65	61	54	54	60	63	62	66	56	63	60	63	62	59	61	62	68	71	66	60	61	..	62.6
	Maximum	91	89	84	86	84	82	91	87	79	75	77	82	84	89	84	88	82	81	81	87	89	85	82	86	90	93	87	85	79	..	..	84.3
Maysville	Minimum	63	63	63	59	62	65	68	62	65	60	52	51	53	66	62	59	65	65	57	58	68	57	57	59	60	67	69	60	58	61	..	60.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Middlesboro	Minimum	64	64	63	62	64	66	62	54	54	62	60	56	57	60	64	64	66	66	65	61	67	62	58	61	60	68	68	67	61	59	..	62.2
	Maximum	94	91	81	85	88	87	78	86	85	75	70	80	90	76	90	83	80	90	90	88	90	89	85	85	90	93	88	85	85	75	..	85.1
Mount Sterling	Minimum	65	65	64	63	64	64	59	54	58	61	57	47	55	65	62	66	60	60	67	65	67	63	64	62	61	68	71	65	58	47	..	61.6
	Maximum	93	93	84	92	94	92	85	86	88	81	74	84	91	91	87	90	85	89	88	90	92	83	85	86	87	95	92	86	86	77	..	87.6
Pikeville	Minimum	65	66	64	64	65	65	62	58	58	65	61	56	59	66	64	67	65	63	63	66	65	60	60	62	65	69	67	58	61	..	..	63.0
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pippapass	Minimum	62	64	62	63	62	..	63	56	56	65	61	56	54	59	64	63	64	64	64	61	63	60	57	60	61	60	69	66	57	56	..	861.1
	Maximum	92	90	82	87	91	86	85	84	86	77	72	83	87	89	85	92	84	90	85	88	89	86	84	84	87	93	89	84	84	76	..	85.7
Quicksand	Minimum	64	63	62	62	63	64	64	65	54	63	59	52	53	58	62	62	64	63	61	59	62	60	58	59	62	65	70	62	57	58	..	60.6
	Maximum	93	91	91	80	85	90	83	75	80	83	72	70	80	85	86	82	87	82	82	80	84	87	82	82	82	88	90	85	82	80	..	83.3
Richmond	Minimum	70	68	64	63	64	64	58	67	60	56	60	52	60	68	67	65	66	66	62	63	68	62	63	64	63	68	72	67	61	60	..	62.9
	Maximum	93	93	88	88	88	89	89	85	87	81	78	83	90	94	89	89	87	87	86	89	92	84	77	89	90	93	93	83	70	71	..	87.1
Williamsburg	Minimum	61	67	65	65	61	73	56	62	57	65	58	56	59	61	63	61	66	70	65	57	65	62	65	62	59	63	64	63	68	72	..	63.4
	Maximum	92	88	80	83	88	82	76	82	82	76	68	78	84	86	82	86	82	82	80	84	87	82	84	88	89	85	84	83	78	..	..	83.4
Winchester	Minimum	68	65	65	64	67	65	58	54	60	60	58	50	58	64	67	63	66	66	62	62	69	60	62	62	62	70	70	67	62	56	..	62.7

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*, †, ° etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville, 5-25-37 1100

51.05
NKE
42
0.7

Nat. Hist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., JULY, 1937 No. 7

GENERAL SUMMARY.

Heavy rains in the northeastern counties in the second week and moderate to heavy rains in most of the State in the following week were of general benefit to crops. In the extended period of dry weather that preceded these rains cultivation of most corn was completed and tobacco was generally cleaned. Some corn stood too long in grass and weeds before its first plowing, and remained rather weedy when laid by. Later in the month this corn was the first to suffer from lack of moisture. Corn on good land that received timely and thorough cultivation withstood the dry weather. As a rule the northeastern, southeastern, and some western districts received enough rain to keep the crops in good growing condition, but acute rainfall deficiencies developed in the central and some eastern sections. In the presence of the rain shortage, the abundant subsoil moisture became an important factor in maintaining growth. Moderate temperatures also helped the crops to resist the increasing dryness.

Tobacco developed well in most eastern districts, but lack of sufficient moisture retarded its growth toward the end of the month. In late tobacco irregularity increased as the dry weather began to affect it. Ideal weather for threshing and harvest predominated. Pastures held up well in most eastern and some western districts, but they began to deteriorate in central sections by the middle of the month. Gardens declined quite rapidly in the drier areas. The comparatively cool weather favored the planting of late potatoes. As a rule the soil contained sufficient moisture to bring them up to good stands.

As the month closed corn was "firing" considerably on the central hills. Crops on the best lands were good and showed little or no dry weather injury, but the need of rain was becoming serious in half or more of the area of the State. As usual under these conditions, the varying types of soil and exposure had their effect in producing irregularity and spottedness in crop conditions.

TEMPERATURE.

In the decade beginning with the 7th temperatures were slightly above normal, but in the remainder of the month they were usually somewhat below. Minimum temperatures were relatively low and the daily range was often unusually large for this month. With a few exceptions the nights were delightfully cool for this mid-summer month, The extremes for the State were 102° at Bowling Green on the 15th and 16th, and 41° at Eubank on the 2d.

PRECIPITATION.

Precipitation averaged about three-fourths of the normal amount. In the west-central, southeastern, and some extreme northeastern counties, it averaged from 4.0 to 5.0 inches, and was seasonal or slightly above. In a district in the western bluegrass region, about two counties wide, extending from the lower Kentucky River Valley to Boyle County, the rainfall was only slightly below normal. In several north-central counties, the section from the central bluegrass eastward, and in a belt southwest across the south-central counties, it varied generally between 1.0 inch and 2.5 inches. A limited district along the Ohio River from Meade to Jefferson received less than an inch. The rains were most general in the period 3d-5th, when light to heavy showers were reported from most stations. Scattered showers occurred from the 7th to 14th, becoming fairly general in the central and eastern counties after the 11th. Local showers also occurred from the 16th to 20th. The showers were rather general but very irregular in the period 25-26th. For the State precipitation ranged between 0.76 inch at Irvington and 6.71 inches at Glasgow. Days with thunderstorms were: 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 19, 25, 30, 31.

MISCELLANEOUS.

Rivers:—Excessive rains in the upper Ohio Valley on the 12th and 13th caused a moderate swell that disturbed pool stages in the stream below for about ten days.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	29.98	30.18	10	29.79	19	7.1	24	n	16	83	53	60	78
Cincinnati ..... Ohio	30.00	30.20	10	29.79	25	5.8	24	sw.	25	80	55	62	79
Evansville..... Ind.	30.00	30.21	10	29.81	15	7.2	30	nw.	16	74	48	58	75
Louisville ..... Ky.	30.02	30.23	10	29.81	17	8.4	29	w.	16	75	46	53	78

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Precipitation		Number of days			
	Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	75.1	98	50	5.62	..	..	..	..	..
1890	73.0	101	44	2.66	..	..	..	..	..
1891	74.0	91	47	4.08	..	..	..	..	..
1892	76.5	100	48	3.30	..	..	..	..	..
1893	78.8	101	50	3.48	..	..	..	..	..
1894	76.2	105	43	2.03	..	..	..	..	..
1895	75.2	99	49	5.75	..	9	10	13	9
1896	77.4	103	47	7.44	0	11	11	12	8
1897	77.8	107	50	4.79	0	10	14	11	6
1898	77.8	102	48	4.71	0	11	13	13	5
1899	77.3	100	47	3.78	0	9	15	10	6
1900	77.9	101	50	4.91	0	11	15	11	5
1901	81.7	112	48	1.72	0	5	21	7	3
1902	78.1	107	48	1.91	0	6	19	9	3
1903	77.5	104	49	3.53	0	8	17	9	5
1904	75.2	99	46	3.40	0	10	16	9	6
1905	75.9	102	52	5.93	0	13	14	9	8
1906	75.2	100	51	6.62	0	11	14	9	8
1907	78.1	102	40	4.71	0	9	18	8	5
1908	76.9	100	50	3.94	0	10	16	8	7
1909	74.8	99	48	6.01	0	11	14	9	8
1910	76.2	96	51	8.63	0	16	10	9	12
1911	75.8	105	42	2.28	0	7	16	8	6
1912	76.8	100	53	5.50	0	12	13	10	8
1913	79.9	109	48	2.54	0	7	17	10	4
1914	78.8	109	48	3.20	0	6	17	9	5
1915	78.7	102	49	5.30	0	11	14	11	6
1916	78.6	102	52	4.17	0	9	17	9	5
1917	75.3	100	50	4.38	0	11	12	10	9
1918	73.8	103	46	3.28	0	8	15	9	7
1919	79.5	104	50	2.10	0	5	20	8	3
1920	75.2	99	44	3.83	0	9	16	9	6
1921	81.1	106	52	2.65	0	7	17	10	4
1922	76.4	102	47	4.77	0	9	17	9	5
1923	76.8	99	44	3.59	0	8	17	9	5
1924	73.7	99	45	3.63	0	8	18	8	5
1925	76.7	105	46	3.93	0	9	15	10	6
1926	77.6	107	43	4.26	0	9	16	9	6
1927	75.7	101	45	3.71	0	9	17	9	5
1928	77.0	100	50	4.07	0	8	17	10	4
1929	76.7	101	46	3.97	0	9	16	10	5
1930	80.5	114	45	1.25	0	5	21	7	3
1931	79.9	104	51	3.85	0	8	18	8	5
1932	78.5	103	49	4.31	0	8	19	7	5
1933	77.0	106	47	6.05	0	10	15	8	7
1934	81.2	110	57	4.24	0	10	15	10	6
1935	78.8	103	56	5.16	0	10	16	10	5
1936	81.4	113	46	3.78	0	10	15	10	6
1937	75.6	102	41	3.04	0	7	17	10	4
Period	77.1	114	40	4.11	0	9	16	9	6

†49-year averages.

Climatological Data for July, 1937.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Birmingham	Marshall	....	....	....	....	....	....	....	....	....	2.31	....	0.47	0	7	....	....	....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	33	....	....	....	....	....	....	....	4.15	+0.65	2.45	0	7	4	27	0	sw.	W. A. Taylor.
Earlington	Hopkins	420	47	77.0	− 1.9	97	16	48	1	35	3.45	0.00	1.48	0	9	23	7	1	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	4.60	.....	1.73	0	5	....	....	....	.....	Lockmaster.
Greenville	Muhlenburg	519	20	74.2	− 3.8	94	16	44	1	37	4.98	+1.23	1.20	0	10	20	10	1	s.	C. R. Lovell.
Henderson	Henderson	382	23	76.7	.....	97	16	46	1	36	3.54	+0.35	1.51	0	6	17	14	0	n.	Frank Street.
Hopkinsville	Christian	524	41	76.8	− 2.3	96	11	47	1	37	3.57	−0.16	1.20	0	8	23	8	0	s.	W. K. Morris.
Lovelaceville	Ballard	....	8	75.5	.....	97	11	47	1	38	2.11	.....	0.85	0	4	17	13	1	s.	Blaine Malone.
Mayfield	Graves	364	28	76.8	− 2.1	96	15	61	1	35	2.88	−0.66	1.21	0	6	19	11	1	s.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	75.2	− 2.6	94	15	48	1	34	3.18	+0.15	1.20	0	7	24	2	5	sw.	Henry S. Berry.
Owensboro	Daviess	404	4	....	....	....	....	....	....	....	3.03	+0.72	1.10	0	7	....	....	....	.....	Lockmaster.
Owensboro, Dam 46	Daviess	....	....	....	....	....	....	....	....	....	3.23	−0.25	0.85	0	10	22	8	1	.....	Joe Lagore.
Paducah **	McCracken	516	20	76.2	.....	95	16	60	1	31	3.76	−0.08	1.07	0	9	15	15	1	n.	Dr. W. L. Cash.
Princeton	Caldwell	529	30	77.0	− 1.6	97	15†	50	1	34	4.19	+1.09	2.33	0	8	....	....	....	.....	Lockmaster.
Rumsey, Lock 2 ‡	McLean	384	20	....	....	....	....	....	....	....	1.64	−2.63	0.40	0	8	24	4	3	s.	Wm. Shelton.
Russellville	Logan	590	26	*76.6	− 1.6	*95	16	a47	1	a35	6.65	+2.88	1.75	0	8	....	....	....	.....	Lockmaster.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	....
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	1.33	+1.75	0.40	0	9	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	36	74.2	− 2.1	93	10†	45	1	35	1.42	−2.68	0.78	0	6	24	6	1	sw.	C. E. Barret.
Bowling Green	Warren	500	48	78.8	− 0.5	102	15†	55	1†	34	1.99	−1.99	0.55	0	7	18	8	5	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20	....	....	....	....	....	....	....	3.44	+0.04	1.87	0	10	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	3.02	−1.49	1.24	0	9	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	38	....	....	....	....	....	....	....	3.61	+0.26	1.12	0	6	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	11	....	....	....	....	....	....	....	2.05	−1.83	0.95	0	5	....	....	....	.....	Lockmaster.
Danville	Boyle	540	4	75.0	.....	97	16	47	2	35	3.10	−1.56	1.36	0	6	20	8	3	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	76.5	− 1.3	95	10†	49	1†	37	3.28	−0.77	1.20	0	9	17	12	2	sw.	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	2.92	.....	0.80	0	5	....	....	....	.....	Lockmaster.
Eubank	Pulaski	1177	43	74.2	− 0.9	95	10†	41	2	42	2.50	−1.66	1.70	0	8	15	9	4	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	76.0	− 1.2	97	10	48	1†	36	3.69	−0.87	1.42	0	8	22	6	3	sw.	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	3.87	−0.09	1.10	0	8	....	....	....	.....	Lockmaster.
Glasgow	Barren	780	11	*77.2	.....	§97	18	§50	8	§46	6.71	+2.18	5.10	0	6	....	....	....	.....	Lockmaster.
Grant, Dam 38	Boone	780	12	....	....	....	....	....	....	....	2.56	−1.01	1.05	0	5	....	....	....	.....	Lockmaster.
Greensburg	Green	581	44	75.6	− 1.0	99	16	43	2	39	2.66	−1.18	0.76	0	9	8	2	21	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	2.58	−1.47	0.71	0	9	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	39	76.2	− 1.4	94	15	50	1	31	0.76	−2.31	0.31	0	6	17	9	5	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	4.08	−0.31	1.65	0	9	....	....	....	.....	Walter Killion.
Leitchfield	Grayson	635	41	76.4	− 0.7	96	16	48	1	35	3.04	−0.62	1.31	0	6	15	14	2	sw.	H. H. Willis.
Lexington	Fayette	989	53	76.2	+ 0.3	95	10	47	2	36	3.17	−0.48	1.12	0	9	16	13	2	....	U. S. Weather Bureau.
LittleHickman, Lock 8¶	Jessamine	560	26	....	....	....	....	....	....	....	2.65	−1.11	0.93	0	8	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	3.20	−0.38	1.48	0	7	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	64	77.8	− 1.3	94	16	66	1	26	0.98	−2.77	0.42	0	7	12	13	6	n.	U. S. Weather Bureau
Co Bewman Field	Jefferson	....	....	76.2	.....	94	10	51	2	31	1.20	.....	0.67	0	7	....	....	....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	....	78.6	.....	95	15†	43	1†	40	3.73	.....	1.49	0	9	19	7	5	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	8	....	....	....	....	....	....	....	5.94	.....	2.35	0	7	....	....	....	.....	.....
st. John	Hardin	777	41	74.8	− 1.6	96	16	46	2	36	2.10	−1.23	0.90	0	6	21	0	10	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23	....	....	....	....	....	....	....	1.66	−2.14	0.80	0	6	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	48	76.4	− 1.4	95	9†	49	1†	36	3.66	−0.17	1.97	0	9	16	1	14	s.	Miss RuthRatta,
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	1.89	.....	0.40	0	5	11	13	7	sw.	A. McLeod.
Smith's Grove	Warren	607	....	76.4	.....	97	16	48	1†	39	2.71	.....	1.09	0	10	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	35	73.8	.....	91	10†	46	1	28	4.32	.....	1.30	0	13	....	....	....	.....	Geo. Wright
Tyrone, Lock 5¶	Anderson	524	19	....	....	....	....	....	....	....	1.56	−2.62	0.68	0	7	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	34	76.0	− 0.2	98	10†	49	1	36	3.10	−0.46	0.90	0	6	28	1	2	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20	....	....	....	....	....	....	....	4.39	+0.92	2.10	0	7	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	3.26	.....	0.82	0	8	6	24	2	sw.	W. A. Worthington.
Ashland	Boyd	534	18	75.2	− 1.3	95	24	51	2	35	2.72	−1.47	0.82	0	9	21	4	6	ne.	Lockmaster.
Ashland	Madison	1070	32	76.6	+ 0.3	94	10†	47	1	36	0.97	−3.87	0.29	0	8	11	14	6	ne.	Luther M. Ambrose.
Berea	Cumberland	590	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Lockmaster.
Burkesville	Madison	611	27	....	....	....	....	....	....	....	1.15	−2.91	0.46	0	9	....	....	....	.....	C. Bertrand Fields,
College Hill, Lock 11	Harlan	1440	....	73.8	.....	92	9†	47	2	33	3.08	.....	1.40	0	10	27	4	0	w.	P. H. Kehoe.
Cumberland	Harrison	684	19	....	....	....	....	....	....	....	3.63	−0.39	2.00	0	6	....	....	....	.....	J. V. Oldham.
Cynthiana	Pendleton	600	48	....	....	....	....	....	....	....	2.33	−1.32	0.73	0	6	....	....	....	.....	Mrs. R. F. Stamper.
Falmouth	Rowan	668	29	*73.2	− 1.9	96[b]	10	45[b]	2	36[b]	2.78	−1.61	1.01	0	6	10	8	3	e.	C. A. Glascock
Farmers	Fleming	841	12	....	....	....	....	....	....	....	1.81	−2.38	0.27	0	7	....	....	....	.....	Lockmaster.
Flemingsburg	Clark	637	21	....	....	....	....	....	....	....	3.17	−1.68	1.10	0	8	....	....	....	.....	Lockmaster.
Ford, Lock 10¶	Greenup	1157	9	....	....	....	....	....	....	....	3.15	−1.20	1.15	0	9	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Perry	869	13	....	....	....	....	....	....	....	4.01	−0.03	1.55	0	7	....	....	....	.....	Chas. O. Ihrig.
Hazard	Lee	663	20	74.6	....	95	10	47	2	35	2.88	−1.90	0.85	0	8	11	11	9	sw.	Lockmaster.
Heidelberg, Lock 14	Breathitt	540	17	....	....	....	....	....	....	....	3.81	.....	0.82	0	7	....	....	....	.....	Jas. T. Goff.
Jackson	Letcher	776	....	....	....	....	....	....	....	....	4.12	−0.27	1.21	0	8	....	....	....	w.	R. J. Howard.
Jenkins	Lawrence	584	33	....	....	....	....	....	....	....	2.42	−1.13	1.00	0	7	....	....	....	.....	B. H. Griffin.
Louisa	Mason	624	17	75.0	− 1.8	94	10	48	2	38	4.95	+0.63	2.90	0	8	8	20	3	sw.	Lockmaster.
Maysville	Bell	1128	40	*75.5	+ 0.2	96[b]	10	49[a]	2	37	3.25	−0.65	0.85	0	11	17	14	0	.....	Matthew Woodson
Middlesboro	Montgomery	930	41	74.6	− 1.4	94	16	42	2	38	2.13	−2.70	0.80	0	6	18	12	1	w.	W. R. McKee.
Mount Sterling	Clay	....	47	....	....	....	....	....	....	....	4.33	.....	1.45	0	7	....	....	....	.....	Joe L. Gay.
Oneida	Campbell	497	10	....	....	....	....	....	....	....	3.13	−1.12	1.70	0	6	....	....	....	.....	Lockmaster.
Oneonta, Dam 35¶	Johnson	567	3	....	....	....	....	....	....	....	2.43	.....	0.54	0	9	....	....	....	.....	Manuel Robinson.
Paintsville	Pike	636	31	77.0	.....	97	14	53	2	37	3.97	−0.25	1.56	0	9	....	....	....	.....	U. S Weather Bureau.
Pikeville	Knott	1035	3	a74.4	.....	93[a]	9†	60	2	35[a]	4.37	.....	0.90	0	13	6	21	5	.....	Coney Run Com. Cen.
Pippapass	Breathitt	732	11	73.6	− 3.0	98	24	50	2	36	3.74	−1.69	1.10	0	5	....	....	....	.....	R. W. Jones.
Quicksand	Estill	631	19	....	....	....	....	....	....	....	3.73	−0.84	1.14	0	8	....	....	....	.....	Lockmaster.
Ravenna, Lock 12	Madison	926	46	75.0	− 1.9	92	15†	50	1†	27	2.10	−1.92	0.60	0	9	24	0	7	.....	J. W. Crooke.
Richmond	Madison	571	24	....	....	....	....	....	....	....	1.41	−2.63	0.79	0	8	....	....	....	.....	Lockmaster.
Valley View, Lock 9	Lewis	525	22	....	....	....	....	....	....	....	2.02	−2.70	0.66	0	11	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Whitley	939	38	76.2	− 1.0	95	15	49	1†	39	5.98	+1.24	1.62	0	10	22	6	3	.....	John W. Stephens.
Williamsburg	Lee	646	20	....	....	....	....	....	....	....	1.94	−2.88	0.56	0	6	....	....	....	.....	Lockmaster.
Willow Lock 13	Clark	964	....	75.4	.....	94	16	48	2	34	2.01	.....	0.91	0	8	....	....	....	.....	Airway Station.
Winchester				....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	....
State averages and extremes		....	....	75.6	− 1.5	102	15†	41	2	42	3.04	−1.07	2.45	0	7	17	10	4	sw.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc. §Lone Oak.
* Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.
** Precipitation by U. S. Engineers.

Daily Precipitation for July, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.			.34						.36				.39				.47	.28		.42												2.31
Calhoun G.			T.	.55				.05	T.	T.	.04	T.				.15	.35		2.45					.56					T.		4.15
Earlington G.				1.48	.18							.32	.12			.05	.11	.04		.90						.26						3.45
Fords Ferry Dam 50‖ O.				1.31	.41				T.		.19		.12			.09	.47	.10		1.73						.08					T	4.60
Greenville G.			.95	1.20				.82	.25	.05	.08	.36					.15		1.02							.10						4.98
Henderson O.				.77						.09	.39						.26		1.51						.62					T		3.64
Hopkinsville C.			1.20	.43	.03			.12				.08				.04	1.19		.48													3.57
Lovelaceville M.				.85			T.			.50						.35			.41													2.11
Mayfield M.				.53					.15	.03	.74						1.21	T.	.22													2.88
Owensboro O.				.81	.02				T.		.03	T.					.18		1.20						T.	.60					.34	3.18
Owensboro, Dam 46 ‖ O.				.93	.02					T.		T.				.02	.17		1.10							.58					.21	3.03
Padueah O.				.76	.06			.44			.07	T.	.36				.85	.27	.12	.29					T.							3.23
Princeton G.			1.07	.17			.01	T.			.10	1.03				.27	.56	T.	.47					.08								3.76
Ramsey, Lock No. 2 ‖ G.				.86	.02				.02			.01				.18	.32			2.39					.42							4.19
Russellville‖ G.				.33					.07	.07			.04				.03	.40		.82					.38							1.61
Uniontown, Dam 49‖ O.				1.75	.70								.18			.02	1.43	T.		1.49	T.				.40						.08	6.05
Central Division																																
Addison, Dam 45. ‖‖ O.				.06				.02	.07	.01		T.	.01			.40	.14			.22					.30							1.33
Anchorage O.				.05				.10				T.	.78				.08		.01						.40							1.42
Bowling Green G.				.50	.20				T.			.43							.55						.15	.06						1.99
Brownsville, Lock No. 6‖ G.				.20	.29				.04	.35		.22	.14	.16				.10		.02						.41						8.44
Burnside‖ C.				.11	1.24			.28		T.		.05	.43	T.			.18	.06		1.87						.15						3.02
Carrollton ‖ (Lock No. 1) K.					.98							.72	.32	1.12												.16						3.61
Cold Spring, Dam 36‖ O.					.20				T.			.02	.44	.95						T.						.47						2.05
Danville K.				.12	1.36								1.03	.05						.29						.44						3.10
Dix Dam, Burgin ‖‖ K.			.75	.27			.08		.04		1.20	.13	.83												.25							5.28
Eadsville ‖ C.				.15	.30			.04				.73				.38		.05		.13				.35								2.92
Eubank G. C.					.35	.45																	.05	.42								2.50
Frankfort‖ K.			.08	.54			.10		.76		.25	.54								1.70												3.69
Gest, Lock No. 3 ‖ K.				.17	1.10				.08		.42		.40	1.05						.05					.90							3.87
Glasgow G.					5.10					.12		.20								.09					.56							6.71
Grant, Dam 38‖ O.				.14							.10	1.05	.93					.23		.38					.68							2.56
Greensburg G.				.17	.52	.11			.05	T.	.43	.11	.10							.76					.41							2.66
High Bridge, Lock No. 7‖ K.				.38	.32	.07		T.	.26		.45	.13	.16							.10					.71							2.58
Irvington O.				T.			T.		.08	T.																						0.76
Lancaster‖ K.			.08	1.65			.10		.76		.25	.54				.15	.17		.81					.05								4.08
Leitchfield G.				1.00	T.		T.	T.	.47	.16	.05						.11		.16					.43								3.04
Lexington *** K.				.55	.01	.01			.34	.11	1.04	.37	T.						T.	T.			.08	.71								3.17
Little Hickman, Lock No. 8 ‖ K.				.26	.93				.35		.28	.38	.12	T.						.14					.20							2.65
Lockport, Lock No. 2 ‖ K.				.10	1.27				.12	T.	.05	T.	.10	1.48						.08												8.20
LOUISVILLE*** O.				.05			.02	T.		T.	T.	.42			.16	.01		.01			T.			.26							0.93
Do. Bowman Field				.04								.01	.67			.05	.03															1.20
Mammoth Cave G.				.19	1.49				.02		.12	.03	T.				.37	.63	1.18	T					.12	.28						3.73
Munfordville K.				.2	2.35				.03			.20		.14				T.		2.03					.30							5.94
St. John S.				.25				.80		.15	.10									.90					.95							2.10
Salvisa, Lock No 6 ‖ K.					.22					.12		.80	.50							.02					.40							1.66
Shelbyville S.				.06	.04				.13	.07		.12	1	.97			.02			.03					1.22							3.66
Shepherdsville S.												.40	.06	.31			.31							.31								1.39
Smith's Grove				.14	1.09			.03	.08		.48	.06				.08	.05	.55							.15							2.71
Stearns K.			.53	1.30			.03	.13	.16	.19	.05	.14		.71			.08	.30	.89			.02				.50						4.32
Tyrone, Lock No. 5‖ K.				T.	.20				.34	T.		.02	.03	.24					.05							.68						1.56
Williamstown L.					.90							.17	.28	.45												.40						3.16
Woodbury, Lock No. 4‖ G.				.98		.08				.64		.46							.10	2.10						.03						4.39
Eastern Division																																
Annville				.10	.78							T.	.64	.10			.05	.33		.82						.44						3.26
Ashland ‖ O.	.23			.30	.33						.52		.14	.20	T.		.12			.06						.82						2.72
Barbourville C.																																
Berea K.							.01	.06	.02		.29	.23	.03						.25		T					.08				T.		0.97
Burkeville																																
College Hill, Lock No. 11‖ K.				.08	.46			.07	.03				.18	.02			.13			.02						.19						1.15
Cumberland C.				.70	.15	.01	.15							.01		.06				1.40				.07	.40							3.08
Cynthiana ‖ L.					.31							.18	2.00	.37							.05				.30							3.03
Falmouth ‖ L.				T.	.35				T.			.43	.45	.35						.02					.72							2.33
Farmers ‖ L.				.36	.25							.17	.27	.67						.02					1.01							2.78
Flemingsburg‖ L.		.27			.14							.20	.22	.19						.10				.19								1.31
Ford, Lock No. 10 ‖ K.				.15	.52			.41				.05	.43	.24								.27			1.10							3.17
Greenup, Dam 30‖ O.				.05	.89						.25	T.	.32	.23	.05		.58			.07					1.15							3.15
Hazard ‡ K.			.65	.38					.05	.05							.85		1.55						.48						.05	4.01
Heidelberg, Lock No. 14‖ K.				.20	.85				.45			.18					.55	.05					.04		.56							2.88
Jackson K.				.82	.82												.80			.08	.65	.26			.38							3.81
Jenkins‡ B.	.34				.29					.04		.14	2.90	.72	T.					.06					1.00							2.42
Louisa‡ B.	.17				.61							.22		.12			1.21			.53				.39	1.10						.20	4.12
Maysville‖ O.	.59				.23							.17	.27	.67			.10				.20				1.01							2.78
Middlesboro C.				.15	.85					.23	.21	.20	.22	.19						.06				.19								1.31
Mount Sterling K.				.03	.05			.35	T.		T.	.76				.65		.04	.47			.27	.07	.26				.05				3.26
Oneida C.				1.13				.16			.46	.55					.32	T.		.10				.20	.80							2.13
Oneonta Dam 35 ‖ O.		.01		.35					T.		.01	1.70	.88		T.				1.45						.26							4.38
Paintsville ‖ B.	.09			.44	.38			.33				.05	.54			.20			T.						.18							3.18
Pikeville‖ B.				.10	.32						1.56					.40	.04		.05						.35							2.48
Pippapass K.				.66	.41		.04			.26	T.				.90	.15	.19	.89	.45						.68					.08	.04	3.97
Quicksand‖ K.			.95	.73								.51	.12			1.10			.10		.50		.02	.02	.62					.11	4.37
Ravenna, Lock No. 12‖ K.				T.	1.14			T.				.14	.36	.63		.27			.07					.89	.23						3.74
Richmond K.				.20	.45				.20	.40		.10		.05					.07						.59							3.73
Valley View, Lock No. 9‖ K.			.16	.18			.02	.04	T.			.11	.07						.10		.10		T.		.79							2.10
Vanceburg, Dam No. 32 ‖ O.	.01				.23	.03				.35		.04	.56	.27			.10		.04						.68							1.41
Williamsburg‖ C.				.47	1.10				.16	.11		.20	1.03				.05		1.62					.42	.82							2.02
Willow, Lock No. 13‖ K.					.55				.12			.51	.12				.56								.42	.08						5.98
Winchester				.32	.26							.11	.14													.08						1.94
																				.12	.02			.13	.91						2.01

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

¶Lone Oak.

Daily Temperatures for July, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	83	87	93	83	89	93	94	91	91	91	..	..	..	..	..	..	..	..	..	..	85	89	90	92	85	81	84	87	85	84	92	.....
	Minimum	..	..	..	..	..	78	52	59	61	61	63	61	72	64	65	61	58	53	53	52	53	52	53	53	70	58	56	60	61	63	.....
Earlington	Maximum	82	85	92	87	89	91	93	92	96	95	94	90	94	95	96	97	92	83	81	84	85	90	91	92	93	85	84	89	90	90	92	89.9
	Minimum	48	51	65	59	67	65	65	69	71	72	71	70	72	75	76	74	70	68	61	60	58	60	59	63	70	60	55	53	57	60	60	64.1
Greenville	Maximum	78	83	90	83	86	86	88	91	94	91	89	88	90	92	93	94	90	83	76	80	84	90	93	92	90	82	82	86	90	88	90	87.2
	Minimum	44	46	56	64	66	61	64	65	67	67	68	68	69	71	73	73	67	61	59	60	54	57	58	60	67	58	52	51	54	56	60	61.3
Henderson	Maximum	80	86	95	94	90	92	94	94	94	95	90	94	94	94	96	97	91	83	74	81	88	91	92	92	89	85	86	87	92	89	95	90.3
	Minimum	46	53	60	65	64	64	65	67	69	71	72	69	72	74	65	73	68	58	59	59	58	59	61	64	69	57	53	54	57	62	59	63.1
Hopkinsville	Maximum	80	86	94	86	89	89	92	92	94	94	91	95	96	97	97	98	82	80	82	86	88	93	92	92	83	82	83	88	92	92	92	89.8
	Minimum	47	49	60	64	71	67	69	68	70	69	70	69	67	72	71	70	68	63	63	62	59	59	60	61	68	63	58	55	58	60	65	63.9
Lovelaceville	Maximum	83	84	88	87	89	87	89	91	91	90	87	90	92	94	95	97	89	78	75	82	86	88	91	92	90	85	85	87	92	91	92	88.3
	Minimum	47	62	63	66	66	65	67	65	68	68	67	73	72	73	76	68	64	64	63	60	57	57	60	60	67	56	59	51	54	59	62	62.7
Mayfield	Maximum	82	83	94	86	90	89	92	90	92	93	88	90	91	94	96	95	91	81	76	82	86	83	91	92	90	85	85	88	92	95	93	88.7
	Minimum	51	57	65	65	67	67	68	66	70	68	70	69	71	72	74	69	67	68	65	62	60	62	62	64	70	61	56	56	57	63	65	64.8
Owensboro	Maximum	77	83	90	89	83	89	90	84	90	92	90	89	91	93	94	94	92	84	81	83	85	88	88	90	87	81	82	86	87	89	90	87.2
	Minimum	48	49	60	65	64	66	64	69	68	69	68	68	70	70	72	72	68	61	62	61	58	61	61	64	67	59	54	55	58	60	62	63.1
Paducah	Maximum	81	82	90	87	85	89	91	90	92	92	90	85	94	95	97	97	89	80	78	82	86	88	89	91	91	83	83	86	89	90	91	87.9
	Minimum	50	55	63	67	66	65	66	67	72	71	69	70	75	74	75	76	69	65	64	60	59	59	62	61	72	58	52	53	56	62	63	64.4
Princeton	Maximum	81	84	91	84	88	90	91	91	95	92	90	85	94	95	97	97	89	80	76	84	85	87	90	94	90	85	85	88	92	88	92	88.7
	Minimum	50	54	64	67	69	69	69	69	71	71	72	71	70	73	75	74	69	65	64	63	60	63	62	65	69	61	58	56	58	62	65	65.4
Russellville§§	Maximum	76	86	94	86	88	88	93	91	94	93	93	94	95	97	98	93	83	81	82	85	91	..	93	93	92	82	84	88	91	93	92	*89.6
	Minimum	47	48	62	65	68	64	65	67	69	69	84	69	69	71	72	74	69	66	64	61	56	57	59	..	63	64	54	53	56	60	62	*63.7
Central Division.																																	
Anchorage	Maximum	78	82	86	85	89	88	90	91	91	93	93	88	86	90	91	91	85	79	79	81	87	88	89	91	90	89	82	85	88	87	87	86.9
	Minimum	45	47	58	65	68	64	72	68	68	66	66	68	69	68	72	73	65	54	52	58	54	58	60	61	68	54	52	50	54	58	60	61.5
Bowling Green	Maximum	81	83	95	87	88	93	94	93	90	94	90	90	93	97	102	102	95	88	85	85	85	95	94	95	91	85	86	89	95	94	96	91.5
	Minimum	55	55	62	65	70	65	68	70	70	70	73	70	71	73	73	75	72	65	63	61	62	64	64	66	69	67	60	60	61	65	68	66.2
Danville	Maximum	72	82	90	83	85	90	90	90	95	95	91	90	92	93	97	91	93	82	83	91	90	91	91	90	91	80	83	86	91	93	92	88.7
	Minimum	48	47	65	64	60	62	64	67	67	65	68	69	68	69	70	74	71	59	59	60	61	62	61	61	67	61	55	51	52	65	61	62.3
Dix Dam	Maximum	73	83	91	89	87	87	91	90	94	95	92	90	90	92	93	95	93	85	80	83	83	92	93	94	91	83	86	92	90	94	92	89.1
	Minimum	49	49	67	67	63	64	64	69	70	70	70	71	74	73	73	74	69	64	65	61	63	60	60	60	64	64	54	55	56	60	63	63.9
Eubank	Maximum	77	83	89	87	89	91	93	92	96	95	93	89	90	94	95	93	91	89	89	85	88	91	94	94	91	88	84	85	91	93	93	88.4
	Minimum	44	41	51	63	61	59	59	60	65	64	65	64	63	65	65	64	65	61	63	60	56	61	60	60	64	54	48	58	59	64	65	59.9
Frankfort	Maximum	78	83	91	85	87	88	92	92	95	97	91	94	87	92	94	95	88	85	79	84	89	92	94	93	91	83	84	89	93	92	92	89.1
	Minimum	48	48	56	67	61	65	64	68	67	68	70	69	70	69	72	74	70	64	59	61	57	62	62	64	68	62	55	54	56	60	65	62.4
Glasgow	Maximum	..	..	..	..	..	..	..	..	96	95	93	92	93	95	96	99	94	88	83	85	89	94	95	93	85	85	89	94	96	96	96	*90.9
	Minimum	..	..	..	..	..	..	..	..	50	67	68	69	68	69	68	69	73	72	65	61	62	52	60	60	64	69	64	57	52	60	60	62	*63.5
Greensburg	Maximum	77	80	92	86	89	88	92	91	94	95	93	92	92	95	96	99	94	88	83	85	89	92	94	95	93	85	85	89	94	96	96	90.6
	Minimum	44	43	53	64	61	62	61	66	65	65	66	65	64	63	67	71	69	60	60	60	56	57	59	61	63	62	56	50	53	66	62	60.7
Irvington	Maximum	77	81	88	85	87	88	90	93	90	91	91	90	90	93	94	93	93	82	80	81	84	89	93	91	89	81	81	86	90	89	93	87.5
	Minimum	50	52	63	68	66	66	67	68	71	69	71	71	72	74	77	75	69	60	62	61	57	58	64	64	71	62	55	57	59	62	64	65.0
Leitchfield	Maximum	75	83	93	85	87	87	92	90	93	92	91	90	92	93	95	96	91	85	80	81	85	89	91	93	91	83	85	87	92	93	92	88.8
	Minimum	48	50	60	65	66	65	65	69	70	68	69	69	70	74	74	75	68	62	61	61	57	61	63	65	69	61	55	56	60	62	65	63.9
Lexington	Maximum	74	82	90	85	87	88	92	93	94	95	91	90	88	93	94	94	90	84	79	83	88	91	94	92	92	81	84	88	93	91	92	88.8
	Minimum	48	47	59	61	59	65	67	70	70	70	69	68	71	73	76	74	69	66	60	61	57	61	65	66	65	61	57	58	57	66	67	62.5
Louisville	Maximum	71	84	88	83	86	88	91	91	93	93	92	89	87	91	93	91	87	88	78	81	85	88	91	91	85	82	86	91	88	90	87	87.1
	Minimum	56	57	66	69	66	69	69	74	74	72	75	75	71	71	79	69	67	63	64	61	63	66	69	71	70	64	61	62	65	68	67	67.5
Do. Bowman Field	Maximum	71	81	88	85	85	89	91	91	92	94	92	92	84	92	93	92	92	82	81	85	90	91	91	87	89	81	86	89	89	90	87	87.3
	Minimum	52	51	62	68	63	66	68	72	72	70	73	73	71	71	76	77	70	61	64	60	55	63	66	68	71	61	55	55	59	63	65	65.2
Mammoth Cave	Maximum	71	84	92	82	84	87	90	89	89	91	89	89	90	93	95	95	90	88	77	80	84	89	90	89	..	97	90	82	88	89	91	*87.0
	Minimum	43	43	55	64	63	60	60	63	66	64	66	66	68	71	72	73	69	67	60	60	53	57	58	61	60	52	50	53	56	60	*60.2
St. John	Maximum	73	82	90	83	87	87	88	89	91	90	91	93	93	95	96	90	85	78	80	86	89	90	91	88	84	81	81	87	90	93	91	87.7
	Minimum	47	46	57	65	63	64	65	68	68	65	67	67	70	70	72	73	69	59	60	60	56	59	60	61	67	58	53	51	56	59	62	61.8
Shelbyville	Maximum	71	89	90	85	88	88	91	89	95	95	93	93	85	92	93	93	87	82	75	79	86	91	95	92	91	80	86	86	92	90	90	87.7
	Minimum	49	49	57	66	69	63	67	73	68	69	70	68	70	70	70	71	69	57	60	59	59	63	63	64	67	60	55	55	56	62	65	63.2
Smith's Grove	Maximum	78	87	94	87	88	92	88	91	94	95	92	90	91	94	96	97	93	85	84	88	87	91	93	92	92	84	84	87	93	91	94	89.9
	Minimum	48	48	60	64	66	66	64	66	70	68	68	67	67	70	69	74	70	62	62	60	56	57	62	64	64	63	54	54	55	62	64	62.8
Stearns	Maximum	74	79	88	79	81	83	85	87	89	91	87	89	88	91	91	90	86	82	84	80	83	86	86	85	79	80	83	89	86	87	87	84.8
	Minimum	46	51	62	68	60	63	68	67	67	68	68	64	66	69	71	68	65	63	62	58	60	62	63	67	66	54	56	60	64	63	62	62.8
Williamstown	Maximum	70	86	92	83	83	88	88	96	98	98	98	87	93	93	95	91	85	79	83	88	89	91	91	89	87	85	79	80	84	87	91	88.1
	Minimum	49	50	60	65	64	66	66	70	70	70	72	70	69	70	73	75	70	56	59	53	60	61	61	66	70	60	54	55	58	63	64	63.8
Eastern Division.																																	
Ashland	Maximum	72	74	87	83	81	84	88	88	93	94	91	94	87	93	93	90	88	84	79	84	87	88	90	95	88	81	78	84	84	90	88	85.6
	Minimum	56	51	59	69	63	63	65	69	69	69	72	71	69	70	72	74	69	62	58	64	64	61	63	67	67	68	54	53	54	57	59	63.7
Berea	Maximum	78	82	86	89	82	85	89	88	93	94	92	91	83	92	93	94	93	93	91	90	92	88	90	93	91	82	84	84	92	91	93	88.7
	Minimum	47	56	59	61	61	63	63	68	71	68	71	69	67	71	75	75	73	73	74	67	57	61	63	67	71	67	56	50	54	57	60	64.6
Cumberland	Maximum	72	76	85	78	86	85	85	90	88	91	88	84	86	92	93	93	90	88	85	85	90	87	88	87	87	83	80	80	84	87	88	85.8
	Minimum	52	47	52	59	55	62	64	64	65	65	65	66	65	65	70	64	65	65	75	63	61	65	67	75	70	59	62	66	55	52	60	60	61.9
Farmers	Maximum	76	81	..	89	86	85	90	93	94	96	93	75	90	93	93	92	91	..	79	84	87	89	90	92	92	80	82	86	89	91	92	*87.9
	Minimum	49	45	..	54	57	59	60	65	63	63	67	65	64	65	65	69	69	57	..	51	58	57	57	54	63	61	51	51	47	54	59	*58.4
Heidelberg	Maximum	76	81	88	83	86	86	86	88	93	95	91	86	90	93	93	90	84	83	81	83	86	88	91	93	92	82	82	86	89	90	90	87.1
	Minimum	50	47	53	67	60	62	63	65	66	66	67	67	68	70	67	68	71	63	62	64	62	62	60	63	63	66	55	53	55	60	66	62.2
Maysville	Maximum	76	82	90	87	81	87	90	92	92	91	87	89	87	92	94	90	90	88	81	84	87	87	89	85	90	91	92	91	89	87	92	87.6
	Minimum	49	48	56	68	68	63	63	63	67	68	70	70	67	69	73	74	71	56	58	61	59	61	59	63	69	64	54	54	54	58	62	62.5
Middlesboro	Maximum	..	81	89	85	80	93	89	90	92	95	89	87	87	92	94	90	90	88	81	84	87	87	89	85	89	95	86	89	85	86	89	*87.7
	Minimum	..	49	52	66	64	64	64	66	64	67	67	65	65	68	67	67	69	68	65	66	62	63	63	64	64	65	55	55	61	61	61	*63.3
Mount Sterling	Maximum	76	80	85	82	76	83	90	92	93	92	92	90	91	92	94	94	91	81	78	84	83	88	92	93	92	82	81	87	90	90	92	87.5
	Minimum	52	42	57	65	54	63	61	63	68	68	70	68	66	69	68	70	70	58	58	58	59	60	60	65	65	58	55	52	54	60	62	61.6
Pikeville	Maximum	76	80	91	83	88	87	93	95	95	95	95	92	94	97	96	95	93	85	87	78	88	91	93	94	93	85	85	90	92	90	92	89.8
	Minimum	58	53	54	67	64	62	64	67	68	69	70	69	70	69	74	69	66	69	63	66	63	63	60	63	65	68	59	55	61	60	68	61.1
Pippapass	Maximum	..	77	87	76	83	84	87	88	93	93	89	84	86	93	90	90	83	84	84	75	83	90	92	87	87	84	82	85	92	85	84	*86.3
	Minimum	64	50	52	65	67	61	65	64	67	66	68	66	66	67	68	68	69	63	67	66	69	61	58	62	61	67	55	53	58	59	63	62.4
Quicksand	Maximum	79	81	90	80	84	86	91	92	94	95	92	89	91	93	93	92	94	85	84	84	88	90	93	98	90	83	82	88	90	91	..	*88.9
	Minimum	62	50	54	66	69	63	65	66	67	67	68	65	66	67	65	66	60	66	61	67	65	64	60	66	62	65	65	60	66	67	..	*61.3
Richmond	Maximum	73	72	80	87	80	83	85	88	90	91	91	91	85	85	92	91	92	88	80	80	83	82	85	90	90	90	78	80	84	90	93	85.2
	Minimum	50	59	58	66	62	64	67	68	70	70	72	69	67	70	72	73	72	62	62	62	60	64	65	68	70	64	58	58	58	60	68	64.7
Williamsburg	Maximum	77	83	90	81	85	89	90	93	91	94	92	88	89	92	94	93	90	86	87	86	89	88	90	93	92	84	84	88	90	91	93	88.0
	Minimum	49	49	51	66	65	74	66	67	66	68	69	67	66	70	70	67	71	63	66	66	63	64	70	66	67	66	59	58	61	65	63	64.3
Winchester	Maximum	72	82	87	81	84	85	89	89	91	92	91	88	89	91	93	94	90	83	80	86	89	90	92	92	92	80	81	81	90	90	92	87.4
	Minimum	49	48	59	65	60	64	66	69	69	68	71	69	67	70	71	73	72	58	60	60	60	62	63	66	65	62	56	56	58	65	64	63.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

* † ‡ etc. Indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville, 8-25-37-1100

L.05
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., AUGUST, 1937 No. 8

GENERAL SUMMARY.

Heavy rains late in the first decade throughout the north-central district ended the dry spell of about six weeks duration and brought decided improvement to crops. In several counties of the lower Kentucky River Basin, where the rainfall of the preceding month had been near normal, these rains were heavier than needed and tended to produce undue rankness of growth in tobacco. Good rains in the third week reached most other parts of the state, but there were some south-central, northeastern, and extreme western localities that remained too dry until the end of the month. While considerable irregularity in crop conditions continued, the effect of the weather in general was to cause marked improvement in growth in most of the State.

Because of the character of the rainfall, which occurred most frequently as light to moderate showers with rather long intervals between, tobacco fared better than corn. While quite variable, especially in the hilly districts, late tobacco made fair to excellent progress in most places. Tendency to "fire" brought about some premature cutting of early tobacco in the first week, after which renewed growth caused by the rains delayed the work. Warm weather and less rainfall in the last half of the month were more favorable for tobacco harvesting. Temperatures in this period, together with the rather humid atmosphere, were too high for best results in curing recently housed tobacco. There were some complaints of houseburn from the districts that received the heaviest rains. The rains and excess warmth hastened the growth of late tobacco, however, and also advanced the maturity of corn.

Pastures recovered in the north-central section by the middle of the month, and improved in most other districts. Forage crops had sufficient moisture in most places, but in limited areas they were cut short by dry weather. In the second decade and the last week fair weather and high temperature favored haymaking. Soybean growth was often heavy and difficult to cure. Late potatoes and field tomatoes improved in most sections. Upland and hill pastures were needing rain at the end of the month, but the moisture was sufficient in most places to mature the staple crops.

TEMPERATURE.

Except for a few short intervals of slightly subnormal temperature in the first half, weather considerably warmer than the seasonal average prevailed. Maximum temperatures above 90° occurred very frequently. The nights were unusually warm for this month. Extremes for the State were 100° at several stations in the period 4-11th; and 53° at Anchorage and Eubank on the 1st, and at Farmers on the 3d.

PRECIPITATION.

The precipitation occurred as local thundershowers, and was therefore irregularly distributed as to time and area. It averaged near normal for the State as a whole, but varied between 0.46 inch at Ford's Ferry, Crittenden County and 7.70 inches at Jenkins, Letcher County. Most of the Purchase and a considerable area eastward to the lower valley of the Green received 0.5 to 2.0 inches. Limited districts in the extreme northern, northeastern, and south-central counties reported less than 2.0 inches. In the central counties and most eastern sections from 3.0 to 5.0 inches occurred. A few southeastern stations reported 5.0 to 7.0 inches. Moderate to heavy showers fell in most districts at some time within the period 4-13th. The rainfall on the 8-9th exceeded 2.0 inches at several central stations. Widely scattered showers were reported from the 16th to 20th and light to moderate showers from the 21st to 25th. Light local showers occurred on the last day. Days with thunderstorms were: 4, 5, 6, 7, 8, 9, 11, 12, 16, 17, 18, 19, 20, 21, 22, 29.

MISCELLANEOUS.

August 8.—Wind and lightning accompanying a downpour caused considerable minor damage at Louisville. Many telephones were burned out, and some trees were blown down.

Rivers.—Pool stages, only slightly disturbed by heavy local rains, prevailed in all streams during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.99	30.20	16	29.79	9	6.1	18	nw.	17	86	55	59	77
Cincinnati .....Ohio	30.05	30.31	15	29.83	9	5.3	33	w.	12	89	62	66	73
Evansville..... Ind.	30.02	30.21	15	29.83	9	6.4	25	w.	7	79	54	57	72
Louisville .....Ky.	30.05	30.24	15	29.86	9	7.6	35	sw.	8	83	58	72	67

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall.	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	70.6	100	43	1.23	..	..	..	..	..
1890	73.2	101	44	6.16	..	..	..	..	..
1891	72.9	105	43	5.82	..	..	..	..	..
1892	75.4	96	46	3.13	..	..	..	..	..
1893	74.8	99	48	1.72	..	..	..	..	..
1894	77.1	105	41	3.02	..	5	..	..	..
1895	76.6	102	49	2.15	0	6	16	10	4
1896	77.1	105	41	2.83	0	9	19	8	4
1897	75.2	101	49	2.33	0	7	18	10	3
1898	76.7	100	55	3.83	0	6	18	10	3
1899	78.1	102	51	3.09	0	6	16	11	4
1900	80.4	104	52	2.74	0	12	19	10	2
1901	75.5	101	50	5.12	0	7	12	9	10
1902	75.6	103	45	2.48	0	8	16	10	5
1903	75.5	100	49	3.27	0	8	15	11	5
1904	75.2	100	45	2.64	0	9	15	8	8
1905	75.7	99	42	3.82	0	10	16	8	7
1906	77.4	99	45	4.37	0	10	13	9	9
1907	74.8	99	48	4.27	0	6	15	7	9
1908	76.3	104	49	2.79	0	7	16	8	7
1909	76.9	104	45	2.60	0	6	19	8	4
1910	74.0	100	46	2.72	0	10	18	7	6
1911	76.2	106	45	4.03	0	13	13	7	11
1912	73.7	98	43	4.71	0	7	14	8	9
1913	78.0	108	44	2.81	0	12	16	9	6
1914	76.0	100	49	5.94	0	14	13	8	10
1915	71.3	100	42	6.29	0	9	9	10	12
1916	77.0	101	47	4.25	0	8	14	10	7
1917	73.9	100	42	3.49	0	7	16	8	7
1918	80.2	111	50	3.18	0	8	17	9	5
1919	75.0	104	47	3.49	0	13	17	8	6
1920	73.4	98	37	5.80	0	10	10	10	11
1921	76.0	101	48	5.28	0	6	16	9	6
1922	75.2	101	44	2.43	0	12	16	9	6
1923	75.4	99	43	6.03	0	12	13	10	8
1924	76.5	103	43	3.00	0	7	21	6	4
1925	76.5	106	44	1.47	0	5	21	7	3
1926	77.3	101	51	7.51	0	14	12	10	9
1927	71.1	97	43	2.88	0	8	16	8	7
1928	77.0	101	54	4.33	0	11	14	10	7
1929	74.0	100	37	2.06	0	6	19	7	5
1930	76.5	113	42	2.25	0	7	16	9	6
1931	74.9	102	45	6.36	0	12	13	9	9
1932	76.5	103	43	4.25	0	7	17	9	5
1933	74.7	99	51	3.30	0	8	10	6	15
1934	76.6	104	46	4.76	0	10	15	11	5
1935	77.0	105	42	4.22	0	9	16	9	6
1936	81.1	108	43	2.22	0	6	16	11	4
1937	75.0	100	53	3.68	0	9	15	10	6
Period	75.6	113	37	3.70	0	9	16	9	6

†49-year averages.

Climatological Data for August, 1937.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall										4.22		1.46	0	4					Tennessee Valley Authority.
Calhoun	McLean	437	33	79.2	+ 2.0	96	3	62	1	31	3.08	−0.76	1.79	0	11	6	24	1	sw.	W. A. Taylor.
Earlington	Hopkins	420	47	80.0	+ 0.8	98	17	59	2	34	1.17	−2.08	0.74	0	6	22	4	5	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden										0.46		0.35	0	3					Lockmaster.
Greenville	Muhlenburg	519	20	77.8	+ 1.7	96	17	57	2	35	2.90	−0.57	1.60	0	5	19	11	1	s.	C. R. Lovell.
Henderson	Henderson	382	23	79.4		98	2†	59	2	38	1.50	−1.72	0.68	0	5	13	16	2	sw.	Frank Street.
Hopkinsville	Christian	524	41	80.6	+ 2.7	98	3†	61	3	37	2.10	−1.44	0.85	0	8	22	8	1	s.	W. K. Morris.
Lovelaceville	Ballard		8	79.6		100	9†	57	14	36	1.71	−1.87	1.60	0	2	22	7	2	s.	Blaine Malone.
Mayfield	Graves	364	28	80.6	+ 3.1	98	9†	61	14	35	1.42	−2.29	0.55	0	4	16	13	2	s.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	78.2	+ 2.3	93	3	62	6	27	3.69	+0.25	1.23	0	8	19	3	9	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4								3.26	+0.16	1.57	0	9					Lockmaster.
Paducah **	McCracken	516	20	80.2	− 0.4	98	17†	56	14	36	1.74	−2.00	0.61	0	4	20	11	0		Joe Lagore.
Princeton	Caldwell	529	30	80.7	+ 3.4	98	9	64	3†	33	2.16	−1.44	0.90	0	8	11	16	4	n.	Dr. W. L. Cash.
Ramsey, Lock 2 ‡	McLean	387	20								3.55	−0.67	1.34	0	9					Lockmaster.
Russellville	Logan	590	26	[b]79.9	+ 2.9	100	4	57[b]	2	38[b]	4.05	+0.94	1.30	0	11	17	9	5	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9								3.18	−0.04	0.91	0	7					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								2.67	−0.47	1.80	0	8					Lockmaster.
Anchorage	Jefferson	700	36	75.8	+ 1.3	92	3	53	1	34	4.90	+1.25	1.15	0	9	16	12	3	sw.	C. E. Barret.
Bowling Green	Warren	500	48	80.8	+ 2.6	100[a]	8†	66	1†	32	2.92	−0.71	1.55	0	8	12	14	5	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20								4.95	+0.70	2.40	0	11					Lockmaster.
Burnside	Pulaski	705	46								1.94	−2.28	0.56	0	11					T. A. Lewis
Carrollton, Lock 1	Carroll	480	38								3.81	−0.01	1.81	0	5					Lockmaster.
Cold Spring, Dam 86	Campbell	499	11								2.21	−1.43	0.53	0	10					Lockmaster.
Danville	Boyle	540	4	76.8		96	4†	57	1	37	5.04	+1.35	1.59	0	10	13	10	8	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	78.2	+ 1.6	97	4	57	1	36	4.80	+1.14	1.91	0	8	11	17	3	s.	C. W. Williams.
Eadsville	Wayne	622									2.99		0.82	0	12					Lockmaster.
Eubank	Pulaski	1177	43	76.4	+ 2.5	98	4	51	8	40	4.57	+0.29	1.79	0	6	11	16	4	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	78.2	+ 3.0	97	3	57	1	37	3.55	−0.15	1.67	0	9	19	7	5	w.	Lockmaster.
Gest, Lock 3	Henry	490	26								3.44	−0.12	0.90	0	8					Lockmaster.
Glasgow	Barren	780	11	79.2		98	5	60	2	36	2.57	−1.49	1.60	0	3	28	3	0	n.	R. L. Beatty.
Grant, Dam 38	Boone	780	12								1.84	−1.45	0.40	0	10					Lockmaster.
Greensburg	Green	581	44	78.6	+ 3.4	100	4	55	1	43	3.24	−0.94	0.95	0	10	7	2	22	se.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	35								4.52	+0.74	1.74	0	11					Lockmaster.
Irvington	Breckinridge	646	39	78.6	+ 1.7	94	3	62	1	29	2.26	−1.24	0.95	0	7	16	9	6	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11								4.48	+0.44	1.10	0	13					Walter Killion.
Leitchfield	Grayson	635	41	79.0	+ 3.4	97	3	61	27	32	3.61	−0.11	1.26	0	8	12	17	2	sw.	H. H. Willis.
Lexington	Fayette	989	53	78.5	+ 4.0	98	3	58	1	33	3.52	+0.07	0.86	0	8	14	10	7		U. S. Weather Bureau.
LittleHickman, Lock 8¶	Jessamine	560	26								2.79	−1.25	0.90	0	6					Lockmaster.
Lockport, Lock 2	Henry	485	27								2.99	−0.27	1.21	0	6					Lockmaster.
LOUISVILLE	Jefferson	459	64	79.2	+ 2.2	94	3	64	14	25	4.27	+0.85	2.88	0	10	18	5	8	n.	U. S. Weather Bureau
Co. Bewman Field	Jefferson			78.8		94	3†	60	1	30	5.45		2.17	0	9					U. S. Dept. of Commerce.
Mammoth Cave	Edmonson			76.8		96	8	55	2	36	4.51		2.14	0	10	13	14	4	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	8								4.09		1.08	0	8					
St. Jonn	Hardin	777	41	78.0	+ 3.1	96	4	56	1	33	3.91	−0.62	1.51	0	7	21	2	8		Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23								3.75	+0.21	0.94	0	8					Lockmaster.
Shelbyville	Shelby	825	48	77.3	+ 2.1	98	18	59	1†	32	5.57	+1.88	1.98	0	14	18	0	13	s.	Miss RuthRatta,
Shepherdsville	Bullitt	500									4.09		0.99	0	9	17	8	6	ne.	A. McLeod.
Smith's Grove	Warren	607		79.0		98	4	58	2	37	5.24		1.94	0	10					Airway Station.
Stearns	McCreary	1400	35	76.4		94	4	58	1	36	5.12		1.76	0	12					Geo Wright
Tyrone, Lock 5¶	Anderson	524	19								3.04	−0.02	0.95	0	9					Lockmaster.
Williamstown	Grant	943	34	77.0	+ 2.7	97	3†	60	1†	37	3.53	−0.20	0.85	0	9	16	2	13	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20								3.16	−0.67	1.20	0	7					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								4.69		1.30	0	13	7	14	10	sw.	W. A. Worthington.
Ashland	Boyd	534	18	77.9	+ 3.1	98	18†	57	14	36	0.99	−2.78	0.19	0	11	18	11	7	ne.	Lockmaster.
Berea	Madison	1070	32	77.3	+ 2.8	96	4	55	13	36	5.65	+1.44	1.53	0	11	17	8	6	sw.	Luther M. Ambrose.
Burkesville	Cumberland	590																		C. D. Norris.
College Hill, Lock 11	Madison	611	27								2.89	−1.21	1.35	0	8					Lockmaster.
Cumberland	Harlan	1440		75.6		92	4†	55	2	34	4.37		2.30	0	7	20	8	3	w.	C. Bertrand Fields,
Cynthiana	Harrison	684	19								3.69	−0.21	2.04	0	4					P. H. Kehoe.
Falmouth	Pendleton	600	48								1.98	−2.00	0.61	0	9					J. V. Oldham.
Farmers	Rowan	668	29	[a]75.7	+ 2.4	96[a]	4†	53[a]	3†	43[a]	4.37	−0.07	1.85	0	7	20	7	4	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12								2.42	−2.44	0.70	0	6					C. A. Glascock
Ford, Lock 10¶	Clark	637	21								1.93	+2.41	0.80	0	8					Lockmaster.
Greenup, Dam 30	Greenup	1197	9								2.45	−1.04	0.54	0	12					Lockmaster.
Hazard	Perry	869	13								3.80	−0.21	0.68	0	12					Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	77.2		97	4	58	1†	37	4.85	+0.93	1.40	0	10	10	10	11	sw.	Lockmaster.
Jackson	Breathitt	540	17								3.47		2.10	0	6					Jas. T. Goff.
Jenkins	Letcher	776									1.70	+3.86	1.74	0	11					R. J. Howard.
Louisa	Lawrence	554	33								3.17	−0.99	1.05	0	9					B. H. Griffin.
Maysville	Mason	524	17	77.4	+ 2.2	95	3†	57	3†	38	4.10	+0.20	1.66	0	10	9	16	6	sw.	Lockmaster.
Middlesboro	Bell	1128	40	75.8	+ 1.6	93	1†	55	2	38	5.58	+0.97	1.83	0	9	14	16	1		Matthew Woodson
Mount Sterling	Montgomery	930	41	[a]76.8	+ 2.9	97[a]	4	56[a]	1	35[a]	3.30	−0.87	1.30	0	5	14	10	7	w.	W. B. McKee.
Oneida	Clay		47								4.86		1.53	0	7					Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	10								2.37	−2.07	1.03	0	9					Lockmaster.
Paintsville	Johnson	567									3.22		1.21	0	11					Manuel Robinson.
Pikeville	Pike	636	31	78.8		99	4	62	1†	37	3.98	−0.34	1.18	0	10					U. S Weather Bureau.
Pippapass	Knott	1035	3	76.2		96	4	59	2†	37	4.10		0.78	0	18	2	12	17		Coney Run Com. Cen.
Quicksand	Breathitt	732	11	75.2	+ 0.6	100	11	54	7	39	5.10	+0.59	3.20	0	5					R. W. Jones.
Ravenna, Lock 12	Estill	631	19								3.83	−0.81	0.83	0	11					Lockmaster.
Richmond	Madison	926	46	78.0	+ 2.5	94	20†	60	1	26	3.40	−0.56	0.70	0	10	17	0	14		J. W. Crooke.
Valley View, Lock 9	Madison	571	24								3.27	−0.73	0.82	0	11					Lockmaster.
Vanceburg, Dam 32	Lewis	525	22								2.71	−0.77	1.35	0	8					Lockmaster.
Williamsburg	Whitley	939	38	78.5	+ 2.4	95	4†	59	2	34	5.91	+1.33	1.41	0	12	17	7	7		Wadely West.
Willow Lock 13	Lee	646	20								4.99	+1.23	1.66	0	8					Lockmaster.
Winchester	Clark	964		77.3		98	4	58	1	34	3.84		1.10	0	10					Airway Station.
State averages and extremes				78.0	+ 2.4	100	3†	53	1†	43	3.63	−0.07	3.20	0	9	15	10	6		

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

§Lone Oak.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

¶Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

CLIMATOLOGICAL DATA: KENTUCKY SECTION

Daily Precipitation for August, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.							.60			.98			1.18										1.46									4.22
Calhoun G.				T.	.41	.21	.04	.24	1.79	.08																						3.68
Earlington G.					.02	.03			.03			.74						T.	.14			.04	.05								.01	.07
Fords Ferry Dam 50‖ O.				T.	T.	.35		.02	T.	T.	T.	T.											.21								1.17
Greenville G.				T.	.10				.85	1.60		.25						.09				T.	T.								T.	0.46
Henderson O.					.66		T.			.68								.10				T.									T.	2.90
Hopkinsville C.				.03	.51		.26		.04	.10		.28					.03	T.	.06		.07	T.										1.50
Lovelaceville M.					.11												.85					.03										2.10
Mayfield M.				.55	.10																	1.50										1.71
Owensboro O.				.02	.98	.52		.28	.65																					T.	.28	T.	1.42
Owensboro, Dam 46 ‖ O.				.01	.03	.68		.24	.44	.06			T.						.07		T.	.84	1.23									3.69
Paducah O.					.61	T.			T.										.05			.28	1.57								T.	3 26
Princeton G.				.20	.13			.05	T.			.90					.61	.07					.55								T.	1.74
Rumsey, Lock No. 2 ‖ G.					.02	.43		.24	1.34	.66									T.	.03		.25	.45						T.		.15	2.16
Russellville‖ G.						1.05		.14	1.80	.24								.02				.12	.02	.70								3.55
Uniontown, Dam 49‖ O.					.07	.91		.64	.05	.09		T.	T.					.07	.03			.02	.06	1.08	.05						.02	4.05
Central Division																							.60	.82								3.18
Addison, Dam 45 ‖ O.				.15	.24			.28	1.80	.08									.05		T.	.05			.02						T.	2.67
Anchorage O.				.13	.78	.13		1.12	1.15	T.		.40							.05		.18	1.01										4.90
Bowling Green G.					.04	.18		.50		1.55								.10	.38			.10		.12								2.82
Brownsville, Lock No. 5‖ G.					.03	.30	.04	.44	.70	.31									.17		.01	.35	.08	.13								4.55
Burnside‖ C.					.04	T.		.07	T.	.19		.05							.08		.13	.22	.56	.26	.15						.11	1.54
Carrollton ‖ (Lock No. 1) K.					1.81	.12			1.25		.54	.09									.01	1.59	.57	.05								3.81
Cold Spring, Dam 36‖ O.					.12	.05	.04	T.	.27	.29		.12	.16					.45	.58		T.	.12									T.	2.21
Danville K.						.04	1.18		.56	.50			.39									.01	1.59	.57	.05							.15	5.04
Dix Dam, Burgin ‖ K.					.05	1.91		.80	1.34		.46	.62									T.	.02				.11			T.			4.80
Eadsville ‖ C.							1.18		.40	.19		.07	.07						.04		.09	.82	.17	.50	.04							3.55
Eubank C.						1.03				.62		.64							.21			.28	1.79									.12	2.99
Frankfort‖ K.				.56	.27	.81			1.67			.32	.18								.15	.01	T.	.08							T.	4.67
Gest, Lock No. 3 ‖ K.				.83	.69	.34	.05	.90				.52										.06		.05								3.55
Glasgow G.							.65	1.60															.72								T.	3.44
Grant, Dam 33‖ O.	.03				.18	.19	.04	T.	.40	.28		.29	.03						.05	T.		.55										2.57
Greensburg G.					.03	.30	.04	.44	.70	.31									.17		.01	.35	.08	.13								1.84
High Bridge, Lock No. 7‖ K.					.09	.05	1.74		.28	.52		.57	.94	.04								.04	.95	.41							.02	3.24
Irvington O.				T.	.14	.10		.93	.51	.26		.19							.11		.24	T.	.02	T.	.03						T.	4.52
Lancaster‖ K.						.32		.33	.23			.05	1.10								T.			T.								2.26
Leitchfield G.				T.	.35	.15		.63	.81									.20	.08	.32		.43	1.06	.05	.14						.12	4.48
Lexington *** K.				T.	.34	.86		.77	.01		.01	.83								T.	.18	T.	1.10	1.26	.17	T.							8.61
Little Hickman, Lock No. 8 ‖ K.							.78		.90	.20			.56							T.		.67			.03					T.	T.	3.52
Lockport, Lock No. 2 ‖ K.					.73	.38	.18	T.	1.21			.54										.25	.06								.10	2.79
LOUISVILLE*** O.				.01	.19	.14		2.49	.47			.55										.05										2.09
Do. Bowman Field					.19	.30	1.01	2.17	T.			.34						T.		.10	T.	.11	.20							T.	.01	4.27
Mammoth Cave G.					.17	.04		.18	2.14			.03							T.			.23	1.09		.07						.05	5.45
Munfordville G.					.16	1.05		T.	1.08	.70												.02	.08	1.60	.03						.82	4.51
St. John S.					.20	1.08		1.51	.32	.05		.05						.37		.70		T.		.59	.04						T.	4.69
Salvisa, Lock No 6 ‖ K.					.10	.25	.41		.94	T.		.62	.75									.10										3.31
Shelbyville S.					.88	.87	.30	.03	1.98	.25	T.	.04	1.02									.46	.22								T.	3.75
Shepherdsville S.					.52	.87		.75	.99	.04		.55	.17						.08		.17	.08	.16	.23	.08						.03	5.57
Smith's Grove				.19	.02	T.	.45	1.83														.12										4.09
Stearns K.					.23	.36			.21			.65					.23	1.94			.02	.32	.23	.01								5.24
Tyrone, Lock No. 5‖ K.					.25	.78	.95		.88			.63	.20					.27	.30			.05	1.75	1.02	1.03	.08					.16		6.12
Williamstown L.					.30	.67		.70	.55			.15	.09								T.	.10	.05	.05							T.	3.94
Woodbury, Lock No. 4‖ G.					.04	.43		1.20	.84	.30												.45	.30								.02	3.53
Eastern Division																						.03	.31		.01							3.16
Annville						.24	.18		1.16	.18			1.30	.55																		
Ashland ‖ O.	T.					T.	.17		.18			.02	.08					.01			.01		.24	.06	.66	.10				.01	.05	4.69
Berea K.						.50		.32		.10		1.53	.24										.18		.05	.02	.19	.03			.06	0.99
Burkeville																			.75			.10	.61	1.20	.18	T.				T.	.19	5.65
College Hill, Lock No. 11‖ K.																																
Cumberland C.					.10		.40		.71				1.35						.07				.15	.07	.03						T.	2.89
Cynthiana ‖ K.						.01			.60			.41	.67						.15				.20		2.30							4.37
Falmouth‖ L.					T.	.60	2.04		.95			.10	T.																			4.37
Farmers ‖ L.					.61	.28	.30		.33			.14	.63									.15	.08	T.			T.				.06	3.69
Flemingsburg‖ L.							.85		.68			1.85	.23										.81		.40						.10	1 98
Ford, Lock No. 10 ‖ K.						.04	.31		.70				.24									.62		.61								4.37
Greenup, Dam 30‖ O.					T.	.05			.55	.03		.15	.80					.13				.03	.04	T.	.02	T.	T.				T.	2.42
Hazard ‖ K.						.04	.54		.08	.11		.06	.40						.38	.39		.21	T.	.13	T.	.09						1.93
Heidelberg, Lock No. 14‖ K.						.02	.05	.22	.10	.12			.45						.68	.25		.23	.50	.40	.48						.02	2.45
Jackson K.						.25	.02	.06	.14	.83			.68										T.	1.40	1.08	.32					T.	.07	3.80
Jenkins ‖ B.							.12	15		.50			.45							T.					2.10	.15						4.85
Louisa‖ B.									.74			1.38	.09						.29	1.21		.26	1.74	.78	1.07	.04						3.47
Maysville‖ O.				T.		.07	.66	.10				.06						1.05			.78		.20							.05	.20	7.70
Middlesboro C.				.50	.20	.70	.72	1.10				.26	.06					.05	.40			1.56			T.	.05					.01	3.17
Mount Sterling L.					.70		.70	.20				.36										.08		1.83	.04							4.10
Oneida C.					.50		.72	.76		.50		1.20	1.58								.80		T.	T.						T.		5.53
Oneonta Dam 35‖ O.	T.					.02	.05	.22	.10	.12			.45						.68	.25		.23	.50	.40	.48							3.20
Paintsville ‖ B.				.51	.12	.17		.21	.02			.17	.04									.50	.85									4.86
Pikeville‖ B.								.28	.06				.98	.03				1.03	T.			.10								T.		2.37
Pippapass K.				1.15			.19	.33				.36	.16						T.	.10		.10		1.21	.86	.01		.02			.06	3.22
Quicksand‖ K.				.80	.06		.20	.56		.40		.50	.17	.01				.18	.05	.22		.26	.17	1.18	.11					.07		3.98
Ravenna, Lock No. 12‖ K.					.35				.90				.45									.28	.05	.75	.26		.04		.01			4.10
Richmond K.					.09	.83		.34	.56			.23	.55					.17				.20	3.20		T.							5.10
Valley View, Lock No. 9‖ K.					.10	.20		.50				.50	.40									.66	.20	.09		T.					.11	3.83
Vanceburg, Dam No. 32 ‖ O.					.04	.60		.82	.07			.43	.41									.70	.58	.02							.10	3.83
Williamsburg‖ C.					.06	.20							.09					.14		.04	.26	.48				.68					.04	8.40
Willow, Lock No. 13‖ K.					.24	.38		.48	.59			.50	.74	.78					.12	.68		1.83					.07					3.27
Winchester					.25	.47		.42				1.05							.10				.07	.05	1.19	1.41		.05			.03	2.71
					.02	.22	.27	.27				.39			.97				1.10	T.	.48			1.66	.96						.08		5.91
																								.02	.10					T.	3.84

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. *Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

¶Lone Oak.

Daily Temperatures for August, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Calhoun	Maximum	91	92	96	86	79	88	95	93	92	91	87	85	85	89	92	93	93	90	93	93	93	87	84	89	90	91	91	92	91	87	91	90.0
	Minimum	62	63	65	69	68	64	66	68	68	79	73	72	67	64	64	71	71	72	71	71	73	69	70	69	69	69	64	67	67	67	69	68.5
Earlington	Maximum	92	93	95	87	83	92	95	96	95	95	93	91	85	90	94	95	98	94	96	96	95	90	83	88	91	90	92	92	95	91	93	92.1
	Minimum	61	59	64	67	71	63	66	72	72	71	73	73	66	60	63	73	72	72	72	73	74	68	69	70	67	60	63	62	66	68	73	67.8
Greenville	Maximum	90	91	95	90	82	90	95	93	92	90	90	90	85	89	90	93	96	94	95	95	92	91	81	87	90	90	92	94	90	93	93	90.9
	Minimum	58	57	60	63	68	61	62	65	67	68	70	69	65	61	61	68	68	68	68	66	71	66	67	66	65	58	61	61	63	65	69	64.7
Henderson	Maximum	92	94	98	84	81	87	95	94	97	93	91	90	85	91	94	97	98	96	95	95	96	91	87	91	91	94	95	95	94	91	93	92.4
	Minimum	60	59	60	72	65	64	67	72	69	70	72	71	62	60	60	71	73	69	72	70	70	66	68	66	66	60	63	63	65	67	70	66.5
Hopkinsville	Maximum	93	94	98	92	85	91	97	96	95	97	91	97	88	92	98	97	96	97	96	96	94	91	81	90	91	92	93	95	95	90	93	93.3
	Minimum	63	62	61	64	69	64	66	67	74	71	71	73	67	66	67	70	70	70	70	70	72	73	70	74	63	65	65	67	70	72	72	68.0
Lovelaceville	Maximum	92	95	96	90	88	93	96	94	100	100	94	93	90	92	98	98	98	96	98	96	94	88	83	86	90	91	91	91	90	88	90	92.9
	Minimum	64	63	60	60	70	61	65	71	75	73	71	67	65	57	64	68	68	68	65	66	70	67	65	67	63	61	63	65	65	67	70	66.2
Mayfield	Maximum	94	95	98	87	89	92	95	95	98	96	91	94	89	91	97	95	97	96	98	94	92	89	86	91	93	93	93	93	92	89	92	93.1
	Minimum	67	64	63	70	69	65	69	72	72	73	72	71	67	61	66	72	71	71	70	72	70	68	69	69	65	63	63	67	66	68	70	68.2
Owensboro	Maximum	89	90	94	90	79	84	92	90	90	90	89	86	85	88	91	92	92	91	92	90	87	85	86	88	89	89	92	89	88	88	88	88.8
	Minimum	64	64	66	69	70	62	63	65	66	72	70	71	66	65	64	70	69	69	69	68	72	68	69	68	68	64	65	68	67	70	73	67.5
Paducah	Maximum	92	93	95	85	87	93	95	93	96	96	92	93	89	92	97	97	98	98	98	95	93	89	86	89	92	93	92	94	93	92	93	92.9
	Minimum	63	60	60	69	70	62	67	74	75	78	73	71	66	66	63	71	73	70	71	70	71	69	70	70	65	61	60	62	66	67	71	67.4
Princeton	Maximum	93	93	97	85	84	93	96	94	98	98	94	96	89	94	96	96	96	96	96	94	94	85	83	87	89	91	91	92	91	87	93	91.9
	Minimum	66	65	64	69	70	65	67	72	73	74	73	73	67	65	67	73	72	70	72	72	74	70	71	72	68	64	64	68	69	70	73	69.5
Russellville§§	Maximum	93	94	98	100	84	90	96	95	89	94	90	93	87	83	95	96	96	97	97	93	90	90	90	91	91	92	92	93	91	86	89	91.4
	Minimum	62	57	60	62	70	65	67	68	70	67	69	81	..	69	.	75	71	88	74	..	..	..	..	..	..	..	63	65	64	66	69	72	68.4
Central Division.																																	
Anchorage	Maximum	87	89	92	87	76	78	89	87	82	86	83	83	83	87	87	91	91	90	90	90	87	80	81	85	85	86	87	89	89	88	89	86.5
	Minimum	58	60	65	66	69	64	61	65	66	65	65	65	63	60	61	68	69	70	68	66	70	68	66	66	64	64	64	64	65	67	70	65.1
Bowling Green	Maximum	95	96	99	95	88	93	98	100	91	94	91	90	89	90	93	92	97	93	93	90	90	86	83	84	90	90	91	92	91	90	92	91.8
	Minimum	66	66	67	68	73	67	68	69	71	72	71	75	70	68	67	72	71	73	..	70	74	70	70	71	68	70	70	70	70	67	69	69.6
Danville	Maximum	90	91	95	86	84	83	93	85	85	90	90	89	85	86	90	93	94	96	96	90	87	82	82	83	87	90	91	91	91	82	88	88.8
	Minimum	57	60	62	59	69	63	63	63	67	67	65	64	65	61	60	67	67	70	70	66	70	57	67	67	65	64	61	62	63	65	70	64.8
Dix Dam	Maximum	92	93	96	97	85	89	92	92	85	91	91	89	84	86	92	93	94	94	93	94	94	94	82	83	87	90	91	91	91	82	88	90.0
	Minimum	57	62	63	61	71	67	64	67	69	70	64	66	68	62	62	64	70	74	72	68	69	70	66	70	68	66	64	63	67	67	78	66.8
Enbank	Maximum	93	93	97	98	94	93	93	98	89	88	93	90	92	89	89	95	93	95	93	94	95	93	88	86	88	89	90	89	91	94	93	92.0
	Minimum	53	55	64	61	58	59	59	51	59	58	65	64	59	62	52	65	64	67	67	63	64	61	61	59	63	61	61	61	63	60	64	60.9
Frankfort	Maximum	92	92	97	94	82	85	92	87	83	90	95	96	88	90	94	95	96	95	96	95	91	88	84	85	89	93	92	91	92	87	89	90.4
	Minimum	57	60	60	60	70	69	63	68	68	67	67	66	68	58	59	67	70	71	69	68	72	69	69	68	68	65	64	60	64	66	73	66.1
Glasgow	Maximum	90	92	93	96	95	95	92	95	94	95	89	92	88	88	95	94	97	97	97	95	94	90	86	89	92	90	93	91	88	90	92.0
	Minimum	63	63	70	62	62	68	68	65	65	67	65	70	65	65	63	64	68	69	68	67	66	65	65	65	67	70	71	63	68	70	72	66.8
Greensburg	Maximum	95	95	97	100	89	88	97	91	88	95	91	93	89	91	95	99	99	99	99	95	93	83	85	85	92	93	91	91	91	88	92	92.9
	Minimum	55	57	59	57	72	69	61	63	65	65	67	62	68	62	59	67	67	69	69	64	71	67	66	67	61	61	62	60	63	67	69	64.3
Irvington	Maximum	91	92	94	91	82	86	93	90	85	89	86	85	84	85	88	92	92	91	93	92	89	86	81	86	88	89	90	90	92	89	91	88.7
	Minimum	62	64	66	67	71	67	66	67	66	72	69	69	67	64	63	72	72	71	72	72	73	71	70	70	68	66	66	66	67	70	75	68.4
Leitchfield	Maximum	91	93	97	94	83	87	94	92	87	90	86	91	86	88	93	95	96	95	94	94	91	89	83	88	88	90	90	92	91	86	92	90.5
	Minimum	62	65	65	66	68	65	65	67	67	70	70	71	66	63	63	71	72	72	69	73	67	68	69	67	64	61	65	65	65	69	72	67.4
Lexington	Maximum	90	92	98	97	85	84	92	87	84	91	93	89	86	88	92	95	94	95	95	97	89	84	83	86	85	91	90	91	94	86	92	90.2
	Minimum	58	62	65	67	68	65	64	66	68	69	67	65	66	61	64	71	73	71	70	70	69	68	68	69	67	65	63	65	67	70	72	66.8
Louisville	Maximum	88	91	94	87	81	84	93	86	85	88	91	84	85	86	91	92	94	92	92	91	89	82	82	88	86	89	90	91	90	87	88	88.3
	Minimum	65	66	69	73	70	68	68	68	67	72	72	66	67	64	66	74	76	77	71	75	74	68	68	71	70	71	71	68	70	74	74	70.1
Do. Bowman Field	Maximum	90	89	94	90	80	82	92	92	85	87	92	92	85	89	94	93	92	92	92	92	89	84	86	85	87	88	92	92	91	90	93	89.4
	Minimum	60	63	65	67	70	67	65	69	68	70	70	67	67	62	63	73	73	74	73	72	72	70	68	69	68	66	68	66	68	72	74	68.3
Mammoth Cave	Maximum	90	90	94	93	82	85	95	90	92	92	87	89	84	87	94	94	95	94	93	92	89	90	84	86	88	90	90	90	90	80	89	89.6
	Minimum	56	55	58	59	67	64	60	64	63	68	66	70	68	59	58	67	67	68	67	70	71	64	68	67	61	59	62	61	63	66	70	64.0
St. John	Maximum	90	92	95	96	85	87	94	88	88	90	85	90	86	89	91	94	94	95	93	93	90	88	81	88	91	90	90	92	93	86	90	90.1
	Minimum	56	60	63	63	70	64	62	66	67	67	67	67	66	67	66	69	69	68	68	68	67	72	68	68	70	64	62	64	65	65	68	65.9
Shelbyville	Maximum	87	91	95	89	78	83	93	88	85	88	94	87	81	85	92	93	96	95	94	92	89	82	81	86	84	85	87	88	92	92	91	88.2
	Minimum	59	64	63	64	67	65	63	67	66	66	64	64	64	59	61	69	70	70	69	66	71	68	66	67	66	64	64	66	68	72	72	65.8
Smith's Grove	Maximum	93	94	97	96	85	89	96	94	87	94	94	92	88	88	95	95	96	96	94	93	90	92	84	88	91	93	91	90	93	88	92	91.9
	Minimum	61	58	60	61	68	65	64	65	65	67	66	71	66	62	61	70	70	70	70	70	70	68	68	69	64	63	66	66	65	68	72	66.1
Stearns	Maximum	88	90	93	94	86	83	90	85	77	90	90	88	84	84	90	89	91	90	90	88	86	78	72	83	85	86	85	84	88	88	86	86.6
	Minimum	58	62	65	69	65	65	65	72	66	67	72	65	62	64	66	66	70	70	70	70	67	67	67	65	65	64	64	66	69	69	67	66.2
Williamstown	Maximum	86	88	97	93	82	83	90	80	81	87	90	90	87	86	85	92	92	94	90	89	90	80	81	77	77	80	80	85	97	92	89	87.4
	Minimum	60	63	60	63	63	68	64	67	68	70	69	65	65	61	60	68	71	73	71	69	74	67	63	69	65	65	67	65	66	70	71	66.6
Eastern Division.																																	
Ashland	Maximum	87	88	92	95	83	85	90	88	86	93	93	85	85	89	94	97	98	98	98	98	91	88	85	79	78	88	87	89	91	82	89	89.2
	Minimum	65	62	58	59	68	71	65	66	69	70	67	69	67	57	61	64	71	73	69	72	69	72	69	71	69	70	70	65	68	61	70	66.6
Berea	Maximum	89	92	93	96	88	85	87	90	89	87	88	91	91	90	93	92	98	97	96	92	88	92	93	92	85	80	79	85	89	88	90	89	88	88.8
	Minimum	60	62	65	63	68	64	67	65	64	64	67	64	55	60	62	71	70	67	70	69	72	69	72	69	64	69	65	63	64	63	66	68	72	65.8
Cumberland	Maximum	89	90	91	92	87	87	89	88	87	88	90	88	80	84	89	89	89	90	91	92	90	88	87	87	80	84	86	85	86	87	90	87.7
	Minimum	58	55	59	59	62	66	63	60	63	64	67	68	64	64	61	64	65	66	64	66	66	60	61	65	66	66	65	61	62	60	68	70	70	63.5
Farmers	Maximum	91	89	93	96	88	85	93	89	86	90	94	91	..	85	90	91	94	95	96	95	92	87	84	81	80	84	87	89	91	85	89	89.2
	Minimum	58	56	58	58	67	66	59	61	64	67	64	64	..	53	56	60	64	66	65	66	66	67	66	66	65	65	60	58	60	65	67	62.2
Heidelberg	Maximum	90	91	92	97	85	86	92	93	86	90	91	88	87	86	90	92	90	93	94	94	91	87	85	79	82	89	89	88	89	80	92	88.6
	Minimum	58	58	60	60	65	69	62	64	69	67	68	69	67	63	60	66	65	69	68	69	68	69	69	66	67	67	65	64	65	68	72	65.8
Maysville	Maximum	91	89	95	94	85	88	90	85	85	89	94	88	85	87	94	95	92	95	95	95	90	85	83	84	79	90	90	88	89	86	88	89.0
	Minimum	58	60	57	58	70	69	64	68	69	71	67	66	67	57	59	62	69	72	69	69	71	68	67	67	67	67	66	66	67	71	70	65.9
Middlesboro	Maximum	93	95	93	93	86	83	84	80	84	90	84	90	84	83	89	70	91	92	90	94	93	85	85	79	75	75	89	90	88	85	82	88	86.3
	Minimum	62	58	59	61	65	68	65	62	68	68	68	68	63	64	66	68	63	64	66	68	67	66	66	68	67	67	67	67	65	65	64	69	70	65.4
Mount Sterling	Maximum	90	91	93	97	85	88	90	83	85	90	92	95	85	85	89	93	93	93	96	94	88	87	81	81	81	88	89	90	91	89	..	88.9
	Minimum	56	60	58	60	70	66	63	65	60	69	65	65	68	60	68	66	70	71	68	68	67	67	68	68	68	66	63	63	61	65	72	64.9
Pikeville	Maximum	93	93	94	99	90	91	92	88	88	93	84	85	85	90	93	91	94	91	95	97	92	89	85	78	71	69	70	69	68	66	64	69	72	90.1
	Minimum	62	65	68	62	65	70	65	67	68	68	68	70	68	67	66	66	70	71	68	68	69	70	71	69	69	68	63	67	66	66	67	72	72	67.5
Pippapass	Maximum	93	93	92	96	88	86	88	84	87	86	90	79	75	85	90	89	91	88	92	96	87	90	81	75	78	82	85	86	89	78	93	86.8
	Minimum	62	59	60	59	62	69	61	64	67	65	68	68	68	66	64	69	66	69	66	68	65	67	69	68	67	67	64	63	63	64	68	70	65.6
Quicksand	Maximum	90	93	91	65	87	88	94	87	85	91	93	92	85	88	92	94	92	94	95	94	94	88	80	74	85	89	90	88	85	82	88	89.4
	Minimum	66	55	58	57	62	61	54	58	58	57	61	66	67	60	59	61	66	68	66	59	58	60	67	67	67	64	68	68	68	68	91	80	87.1
Richmond	Maximum	85	88	90	92	93	78	80	90	85	85	88	90	85	88	85	90	88	92	93	91	91	85	80	78	84	86	88	90	91	92	93	94	72	68.9
	Minimum	60	64	65	66	72	68	67	65	70	70	70	70	70	66	68	70	72	75	72	72	73	69	70	67	67	67	67	67	67	69	70	70	72	89.5
Williamsburg	Maximum	90	92	93	94	86	83	90	85	77	90	90	88	84	84	90	89	91	90	90	88	86	78	72	83	85	86	85	84	88	88	86	86	71	67.5
	Minimum	58	62	65	69	65	65	65	72	66	67	72	65	62	64	66	66	70	70	70	70	67	67	67	65	65	64	64	66	69	69	67	67	72	66.2
Winchester	Maximum	89	92	94	98	84	82	91	84	84	90	92	87	87	86	91	93	91	92	92	92	87	86	78	81	84	88	90	90	92	82	87	88.8
	Minimum	58	65	65	64	72	68	63	65	67	69	67	65	65	60	63	68	70	72	62	62	73	68	68	68	66	61	65	64	68	68	72	66.3

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
*, ** etc. indicate respectively 1, 2, 3 etc., days missing from record.
W. B. O. Louisville, 9-25-37 1100

1.25
NKF
1.42
No.9

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., SEPTEMBER, 1937 No. 9

GENERAL SUMMARY.

Showers in the first week and moderate to heavy rains on the 11th benefited late corn, potatoes, tomatoes, and late forage. Some northern areas, mainly in the bluegrass region, did not receive enough rain to meet the needs of late potatoes, which were seriously delayed by the dry weather. As a rule the rainfall was too light to cause more than temporary improvement in pastures, which continued fairly good in most of the State but deteriorated slowly late in the month. Irregular showers in the last week helped potatoes in some places and furnished moisture badly needed by recently sown grain; but this rain was not sufficient to do much in about half of the State. The showery conditions of the first week hindered tobacco harvest and haymaking. Interference by rain occurred on only two days thereafter. Except for the prevailing low temperature that delayed the ripening of tobacco, the weather of the last three weeks was favorable for saving the crop. Light frosts in the cool periods slightly affected late corn and tobacco in the northern and eastern counties, but there was no damage of consequence. The most unfavorable feature of the cool weather was the effect of the cold winds on the preliminary stages of tobacco curing. In order to avoid this type of injury, much tobacco was piled immediately after cutting until yellowing was well advanced.

Corn dried rapidly and cutting was practically completed in all except the late plantings. While temperatures were too low for late corn to develop properly, the sunshine and dry weather brought it forward toward maturity with almost normal progress. The ground became too dry for plowing toward the end of the month. Seeding of rye after corn and tobacco advanced rapidly, but the moisture content of the soil was too limited to insure germination. Early sown grain came up to good stands. The cool dry weather was especially favorable for picking and marketing the heavy fruit crop. As the month closed rain was needed in all districts for small grains, late potatoes and pastures. With the exception of some plowing, the weather favored the advancement of all farm work.

TEMPERATURE.

Temperatures were about 10° above normal on the first four days, after which they registered near the seasonal average for a week. Except for a brief interval, the remainder of the month was decidedly cool, with daily means frequently 10° or more below normal. Quite low temperatures, only slightly above freezing at some stations, occurred in the periods 13-14th, 17-20th, and 26-28th. The highest for the State was 98° at Henderson and Hopkinsville on the 1st, and at Greensburg on the 2d. The lowest was 29° at Farmers on the 18th.

PRECIPITATION.

A few stations centrally located reported normal rainfall, but most of the State received much less than the seasonal amount. In a broad belt across the southern counties from 2.0 to 3.5 inches occurred, and in a small area in the extreme north from 3.0 to 4.5 inches. In the central bluegrass region and most of the district near the Ohio River, amounts ranged from 0.50 inch to 1.5 inches. A large area in the northeastern part of the State received less than an inch. Some districts in this dry section were also relatively dry in the preceding month. Scattered showers occurred from the 2d to 4th, and fairly general showers on the 5th and 6th. Moderate to heavy rains reached all districts on the 11th, and light to moderate showers fell in most places on the 26th. Several northern and western stations reported 1.5 to 2.5 inches on the 11th. Days with thunderstorms were: 1, 2, 3, 4, 5, 10.

MISCELLANEOUS.

Rivers.—A slight swell from the upper Ohio lifted stages somewhat above pool levels in the first week, otherwise the stream remained almost stationary.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo ..... Ill.	30.04	30.34	29	29.73	10	7.5	31	nw.	10	83	58	60	72
Cincinnati ..... Ohio	30.09	30.42	30	29.71	11	5.9	18	w.	15	87	50	60	79
Evansville ..... Ind.	30.06	30.39	29	29.71	10	7.7	26	sw.	10	76	47	51	74
Louisville ..... Ky.	30.09	30.40	30	29.76	10	9.0	25	nw.	25	78	49	53	71

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	72.1	101	36	1.23	..	..	..	..	..
1890	67.0	95	36	2.71	..	..	..	..	..
1891	69.5	97	42	1.89	..	..	..	..	..
1892	68.5	93	38	2.68	..	..	..	..	..
1893	69.6	99	35	3.24	..	..	..	..	..
1894	71.7	98	37	2.71	..	..	..	..	..
1895	73.4	101	27	1.10	0	..	19	8	3
1896	68.6	100	30	3.77	0	3	14	9	7
1897	72.8	105	31	0.21	0	7	26	4	0
1898	73.4	103	42	4.36	0	1	17	8	5
1899	68.7	105	27	1.66	0	9	18	8	4
1900	74.6	102	35	2.25	0	5	15	9	7
1901	68.1	98	33	3.57	0	6	18	7	5
1902	67.3	97	29	4.01	0	6	13	7	10
1903	69.1	100	32	0.91	0	10	21	6	3
1904	71.1	99	34	2.58	0	4	15	7	8
1905	70.2	95	36	2.61	0	8	16	6	8
1906	73.0	95	45	6.15	0	6	11	7	12
1907	69.1	102	35	3.00	0	13	17	5	8
1908	71.6	101	30	1.03	0	6	18	8	4
1909	67.7	97	32	2.51	0	3	16	7	7
1910	71.8	99	38	4.41	0	6	14	8	8
1911	74.3	99	46	3.71	0	9	13	8	9
1912	71.0	103	33	2.80	0	10	18	6	6
1913	69.6	106	29	2.49	0	7	11	7	12
1914	67.8	97	36	2.96	0	9	18	6	6
1915	70.7	99	32	3.32	0	6	17	8	5
1916	67.2	98	32	3.48	0	7	20	5	5
1917	67.7	98	34	2.56	0	6	18	7	5
1918	62.8	92	30	2.94	0	5	15	6	9
1919	71.5	102	40	1.69	0	8	20	6	4
1920	70.8	96	38	3.30	0	4	14	8	8
1921	75.5	99	45	5.37	0	9	10	11	9
1922	72.7	103	39	2.22	0	13	20	6	4
1923	66.8	94	30	2.87	0	5	15	7	8
1924	65.3	97	35	4.49	0	8	14	7	9
1925	77.2	110	45	2.83	0	10	15	7	8
1926	73.5	98	40	3.78	0	9	14	8	8
1927	72.2	103	30	2.87	0	6	16	9	5
1928	65.5	99	24	0.81	0	3	20	6	4
1929	69.5	97	35	4.69	0	11	13	8	9
1930	72.6	101	38	2.46	0	8	13	9	8
1931	75.1	103	36	2.74	0	5	20	6	4
1932	69.5	103	34	3.66	0	8	16	6	8
1933	74.3	98	40	5.03	0	9	17	6	7
1934	69.2	95	39	4.82	0	10	4	9	8
1935	68.3	99	31	2.75	0	5	21	4	7
1936	74.4	101	41	3.57	0	7	12	10	7
1937	67.8	98	29	1.84	0	5	16	7	7
Period	70.5	110	24	2.95	0	7	16	7	8

†49-year averages.

Climatological Data for September, 1937.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches			Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																			
Birmingham	Marshall										2.39		1.00	0	4					Tennessee Valley Authority.
Calhoun	McLean	457	33	68 6	— 3.3	94	1	40	18	33	1.52	−1.56	0.72	0	5	12	15	3	ne.	W. A. Taylor.
Earlington	Hopkins	420	47	69.6	— 2.0	97	1	35	28	41	2.90	+0.03	1.61	0	6	20	4	6	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	8								1.48		0.55	0	6					Lockmaster.
Greenville	Muhlenburg	519	20	*67.2	— 3.9	96[a]	1	33[a]	28	43[a]	3.65	+1.08	2.00	0	5	22	3	5	s.	C. R. Lovell.
Henderson	Henderson	382	23	69.4		98	1	35	18	51	1.85	−1.61	1.34	0	4	20	5	5	n.	Frank Street.
Hopkinsville	Christian	524	41	69.4	— 2.8	98	1	37	18	41	2.23	−0.91	0.66	0	7	19	3	3	s.	W. S. Morris.
Lovelaceville	Ballard		8	69.1		94	1	35	18	45	2.70	−1.51	1.15	0	4	20	1	9	s.	Blaine Malone.
Mayfield	Graves	364	28	70.2	— 2.0	95	1	40	28	37	1.93	−1.05	1.01	0	5	18	8	4	n.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	67.1	— 3.3	92	1	35	18	41	2.13	−1.11	0.70	0	5	20	2	8	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4								1.65	−1.88	0.73	0	5					Lockmaster.
Paducah **	McCracken	516	20	69.6	— 4.8	97	1	35	18	45	2.03	−1.24	0.80	0	5	17	7	6	n.	Dr. W. L. Cash.
Princeton	Caldwell	529	30	69.1	— 2.7	94	1	39	18	40	2.34	−1.00	1.40	0	5	17	7	6	n.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	20								1.37	−1.78	0.67	0	6					Lockmaster.
Russellville	Logan	590	26	†67.5	— 3.4	96[f]	1	36[f]	18	33[f]	2.30	−0.77	1.03	0	5					Wm. Shelton.
Uniontown, Dam 49	Union	357	9								1.74	−2.96	0.69	0	8					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								1.57	−1.48	1.39	0	2					Lockmaster.
Anchorage	Jefferson	700	36	65.6	— 3.4	93	1†	34	28	39	1.58	−1.14	0.63	0	4	25	1	4	ne.	C. E. Barret.
Bowling Green	Warren	500	48	69.2	— 3.2	95	1	42	28	32	2.46	−0.93	1.83	0	4	17	7	6	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6 ‡	Edmonson	410	20								1.28	−1.94	1.03	0	3					Lockmaster.
Burnside	Pulaski	705	46								4.71	+1.09	1.93	0	6					T. A. Lewis
Carrollton, Lock 1	Carroll	480	38								2.69	−0.41	1.45	0	3					Lockmaster.
Cold Spring, Dam 36	Campbell	489	11								3.45	−0.44	1.35	0	6					Lockmaster.
Danville	Boyle	540	4	66.2		92	3	33	18	47	0.77	−2.75	0.62	0	3	20	6	4	s.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	68.1	— 3.8	95	1†	35	27	44	0.87	−2.47	0 83	0	3	18	8	4	nw.	C. W. Williams.
Eadsville	Wayne	622																		Lockmaster.
Eubank	Pulaski	1177	33			93[t]	1	32	28		1.90	−1.60	1.20	0	2	17	5	8	n.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	67.2	— 2.2	95	1†	35	28	51	1.46	−1.30	0.46	0	6	22	2	6	sw.	Lockmaster.
Gest, Lock 8	Henry	490	26								0.70	−2.44	0.48	0	4					Lockmaster.
Glasgow	Barren	780	11	64.9		95	1	37	18	39	4.25	+1.00	2.40	0	4	27	3	0	n.	R. L. Beatty.
Grant, Dam 38	Boone	780	12								3.23	−0.25	1.94	0	4					Lockmaster.
Greensburg	Green	581	41	66.8	— 3.0	98	2	32	18	51	2.08	−1.21	1.17	0	4	13	3	14	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	55								0.78	−2.12	0.63	0	4					Lockmaster.
Irvington	Breckinridge	646	39	67.8	— 2.8	94	1	40	18†	33	1.56	−1.34	0.54	0	5	20	4	6	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11								0.79	−2.14	0.37	0	3					Walter Killion.
Leitchfield	Grayson	635	41	67.5	— 2.7	95	1	37	18	43	1.78	−1.69	0.80	0	4	18	7	5	sw.	H. H. Willis.
Lexington	Fayette	989	53	67.5	— 1.0	97	1†	38	28	37	0.87	−2.20	0.35	0	6	15	11	4		U. S. Weather Bureau
LittleHickman, Lock 8	Jessamine	560	26								1.22	−1.98	0.82	0	3					Lockmaster.
Lockport, Lock 2	Henry	485	27								0.48	−2.60	0 86	0	3					Lockmaster.
LOUISVILLE	Jefferson	459	64	67.9	— 2.6	92	1	43	27	37	1.09	−1.69	0.47	0	5	18	7	5	n.	U. S. Weather Bureau
Co. Bewman Field	Jefferson			69.5		93	2	37	28	33	0.71		0.33	0	5					U. S. Dept. of Commerce.
Mammoth Cave	Edmonson			*65.4		93[t]	1	33[a]	18†	41[a]	2.31		0.77	0	6	18	3	9	ne.	Ivan J. Ellsworth.
Munfordville	Hart	600	8								2.15	−0 43	1.60	0	4					
St. Joun	Hardin	777	41	67.5	— 2.0	95	1	35	18	45	3.10	+0.05	2.00	0	4	25	2	3	....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	23								1.94	−1.12	0.77	0	5					Lockmaster.
Shelbyville	Shelby	825	43	67.3	— 2.8	97	2	38	18†	40	0.63	−2.21	0.40	0	5	22	0	8	n.	Miss RuthRatta,
Shepherdsville	Bullitt	500									2.57		1.36	0	5	21	5	4	sw.	A. McLeod.
Smith's Grove	Warren	607		68.6		96	1	38	18	38	3.73		2.10	0	4	15	11	4		Airway Station.
Stearns	McCreary	1400	35	67.0		88	1†	35	28	34	1.32		0.61	0	6					Geo. Wright
Tyrone, Lock 5	Anderson	524	19								2.15	−1.14	0.70	0	5					Lockmaster.
Williamstown	Grant	943	34	69.6	+ 0.4	97	1†	40	18†	44	1.54	−1.09	1.00	0	5	22	1	7	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20								3.21	+0.51	1.66	0	5					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								3 60		1.96	0	7	10	18	7	sw.	W. A. Worthington.
Ashland	Boyd	534	18	66.6	— 3.9	94	3	39	18	41	1.70	−0.74	1 21	0	6	16	7	7	ne.	Lockmaster.
Madison		1070	32	*66.8	— 3.1	93[a]	2	34[a]	18	42[a]	1.29	−1.65	0.63	0	5	16	6	8	sw.	Luther M. Ambrose.
Berea	Cumberland	590																		Lockmaster.
Burkesville	Madison	611	27								1.38	−1.52	0.50	0	4					C. Bertrand Fields,
College Hill, Lock 11	Harlan	1140		67.1		90	2†	38	18	35	1.20		0.52	0	5					P. H. Kehoe.
Cumberland	Harrison	684	19								1.09	−2.29	0.55	0	3					J. V. Oldham.
Cynthiana	Pendleton	600	48								1.82	−0.79	0.92	0	5					Mrs. R. F. Stamper.
Falmouth	Rowan	668	29	64.8	— 3.5	96	2	29	18	50	0.98	−1.77	0.68	0	3	21	4	6	e.	C. A. Glascock
Farmers	Fleming	841	12								0.76	−2.59	0.45	0	3					Lockmaster.
Flemingsburg	Clark	637	21								1.33	−1.67	0.47	0	4					Lockmaster.
Ford, Lock 10	Greenup	1197	9								0.88	−1.60	0.31	0	6					Lockmaster.
Greenup, Dam 30	Perry	869	13								0.77	−2.43	0.40	0	3					Chas. O. Ilrig.
Hazard	Lee	663	20	66.6		94	2	36	18	45	0.58	−2.60	0.28	0	5	14	9	7	ne.	Lockmaster.
Heidelberg, Lock 14	Breathitt	540	17								1.22		0.43	0	5					Jas. T. Goff.
Jackson	Letcher	776									1.87	−1.07	0.78	0	6					R. J. Howard.
Jenkins	Lawrence	584	32								1.07	−1.62	0.58	0	5					B. H. Griffin.
Louisa	Mason	524	17	67.8	— 1.9	96	2	37	20	46	0.80	−2.09	0.30	0	6	14	11	5	sw.	Lockmaster.
Maysville	Bell	1128	40	*67.2	— 2.4	90[a]	2	41[a]	17	34[a]	1 60	−1.59	0.62	0	5	19	11	0		Matthew Woodson
Middlesboro	Montgomery	930	41	65.8	— 2.4	95	2	33	17	45	1.05	−2.13	0.76	0	3	18	9	3	w.	W. R. McKee.
Mount Sterling	Clay		47								4.45		2.05	0	4					Joe L. Gay.
Oucida	Campbell	497	10								4.60	+1.21	1.85	0	6					Lockmaster.
Oneonta, Dam 39	Johnson	567	3								1.61		0.54	0	8					Manuel Robinson.
Paintsville	Pike	636	31	68.6		95	1†	37	28	33	2.82	−0.64	0.95	0	8					U. S Weather Bureau.
Pikeville	Knott	1035	8	69.0		94	1†	38	18	47	2.10		0.92	0	8	12	7	11		Caney Run Com. Cen.
Pippapass	Breathitt	732	11	64.7	— 6.3	95	2	37	18†	48	1.78	−1.07	1.20	0	3					R. W. Jones.
Quicksand	Estill	631	19								2.22	−1.34	1.21	0	6					Lockmaster.
Ravenna, Lock 12	Madison	926	46	68.7	— 2.4	92	4	40	28	30	2.05	−0.90	0 75	0	6	19	0	11		J. W. Crooke.
Richmond	Madison	571	24								1.48	−1.93	0.62	0	6					Lockmaster.
Valley View, Lock 9	Lewis	525	22								0.72	−1.92	0.35	0	4					Lockmaster.
Vanceburg, Dam 32	Whitley	939	38	69.0	— 1.8	92	1†	42	18†	37	1.64	−1.88	0.46	0	6	19	3	8		Wadely West.
Williamsburg	Lee	646	20								1.11	−1.96	0.33	0	5					Lockmaster.
Willow Lock 13	Clark	564		67.2		93	2	33	28	33	0.59		0.34	0	3					Airway Station.
Winchester				67.8	— 2.7	95	1†	29	18	51	1.84	−1.11	2.40	0	5	16	7	7	n.	
State averages and extremes																				

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc.

* Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow §Lone Oak.

*Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for September, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.			.57				.30		.52																T.	1.00						2.39
Calhoun G.		T.		T.	.10	T.				.61	.05	.04													.72						1.02
Earlington G.		.02	.07		.40	T.				T.	1.61														.05	.75					2.90
Fords Ferry Dam 50‖ O.	T.		.09	T.	.08	.07				T.	.17		T.												.52	.55					1.48
Greenville G.					.40	.20				.45	2.00														.60						3.65
Henderson O.				.17	.18					.16															1.34						1.85
Hopkinsville C.		.24		.16	.45	.15	.04			.66															.55						2.25
Lovelaceville M.		1.15		.15						.32															1.08						2.70
Mayfield M.	.15	.36	T.	T.	T.					.11	.30														1.01						1.93
Owensboro O.	T.				T.	.42				.21	.40														.40	.70					2.13
Owensboro, Dam 46 ‖ O.	T.				T.	.33				.14	.36														.09	.73					1.65
Paducah O.	.03		.52	.02	.23					.15	.15														.13	.80					2.03
Princeton G.		.12		.02	.55					.25															1.40						2.34
Rumsey, Lock No. 2 ‖ G.	T.	.02			.03	.06				.41	.18														T.	.67					1.37
Russellville‖ G.				.22	.26	.15					1.03															.64					2.30
Uniontown, Dam 49‖ O.	.04			.17	.07	.01				.04	.22														.69	.50					1.74
Central Division																																
Addison, Dam 45. ‖ O.				T.	T.	T.				T.	1.39															.18					1.57
Anchorage O.				.29	.33					.63															.39						1.58
Bowling Green G.				.01		.34					1.83															.28						2.46
Brownsville, Lock No. 6‖ G.					.02						1.03															.23						1.28
Burnside‖ C.	T.			1.93	1.76	.13					.76															.13						4.71
Carrollton ‖ (Lock No. 1) K.				1.05						1.45																.19						2.69
Cold Spring, Dam 36‖ O.	.02			.01	1.35	.70					1.22															.15						3.45
Danville K.						.07					.62														.08						0.77
Dix Dam, Burgin ‖‖ K.					.02					.83															.02						0.87
Eadsville ‖ C.																																
Eubank C.						1.20				.70																						1.90
Frankfort‖ K.	.07	T.		.11	.28	.46					.56															.18						1.46
Gest, Lock No. 3 ‖ K.	.08	T.			.01	.03				.48																.11						0.70
Glasgow G.				.65	.10					1.10	2.40															.28						4.25
Grant, Dam 33‖ O.	T.			.80	.30						1.94															.19						3.23
Greensburg G.				.20	.42	T.					1.17															.29						2.68
High Bridge, Lock No. 7‖ K.	T.				.03	.09					.63															.03						0.78
Irvington O.	.36			T.	T.	.05				.35	.54	T.													.26						1.56
Lancaster‖ K.				.10	.12	.20				.37																						0.79
Leitchfield G.				T.	.10	T.				.41	.80	T.													.47						1.78
Lexington *** K.	.05			.01	.31					.35	.01														.14						0.87
Little Hickman, Lock No. 8 ‖ K.						.35	.05				.82																					1.22
Lockport, Lock No. 2 ‖ K.	.05	.07									.36																					0.48
Louisville*** O.			.26	.65	.03					.47															.28							1.09
Do. Bowman Field.				.06	.02	T.				.33	.18														.12							0.71
Mammoth Cave G.				T.	.77	.02	T.			.75	.53	.01													.23	T.						2.31
Munfordville G.					.15	.12					1.60															.28						2.15
St. John S.				.10	.70	T.					2.00															.30						3.10
Salvisa, Lock No 6 ‖ K.				.09	.77	.27					.66															.15						1.94
Shelbyville S.	.03			.08	.02						.40															.10						0.63
Shepherdsville S.	.17			.13		1.36				.69															.22							2.57
Smith's Grove					.62	T.				.80	2.10														.21							3.73
Stearns					.03	T.				.61	.30						.07			.02												1.32
Tyrone, Lock No. 5 ‖ K.					.35	.62	.70				.38															.10						2.15
Williamstown L.	.06	.05				.21					1.00															.22						1.54
Woodbury, Lock No. 4 ‖ G.	.04				.78	.54					1.66															.19						3.21
Eastern Division																																
Annville					.09	1.96	.48			.65		.01				T.	.23									.13						3.60
Ashland ‖ O.	.03		.01			1.21					.05		.38				.02															1.70
Berea K.				.16		.63	.12			.36																.02						1.29
Burkeville																																
College Hill, Lock No. 11 ‖ K.					.50	.30					.46															.04						1.30
Cumberland C.						.52	.10				.08															.40						1.20
Cynthiana L.					.45						.55															.09						1.09
Falmouth ‖ L.	.50	T.			.02	.15					.92															.24						1.83
Farmers ‖ L.						.68					.19															.08						0.95
Flemingsburg ‖ L.					.22						.45															.09						0.76
Ford, Lock No. 10 ‖ K.	T.	T.			.45	.47	T.				.39																					1.35
Greenup, Dam 30‖ O.	.04	.30			.08	.08	T.				.31															.07						0.88
Hazard ‖*					.05	.26					.06		.40																			0.77
Heidelberg, Lock No. 14 ‖ K.					.07	.02					.28						.11									.06						0.54
Jackson K.					.43	T.					.42						.38									T.						1.23
Jenkins‖ B.			.18			.42	.78				.23					.07										.19						1.87
Louisa‖*					.15	.58					.12		.10				.12															1.07
Maysville‖ O.	.10				.01	.10					.30	.04														.25						0.80
Middlesboro C.				.09	.15	.39	.62			.35																						1.60
Mount Sterling L.				.70	.30					T															.05							1.05
Oneida C.					2.00	.99										.70										.85						4.45
Oneonta Dam 35‖ O.	.10	.96			1.85	.43					1.08															.08						4.50
Paintsville ‖ B.			.02		.51	.54	.02				.06		.21				.18									.07						1.61
Pikeville‖ B.				.05	.45	.95	.32				.30		.02		T.	.06										.17						2.32
Pippapass K.				.15	.92	.19	.22			.33					.05		.04								.20							2.10
Quicksand‖ K.					1.20		T.				T.							.40								.18						1.78
Ravenna, Lock No. 12‖ K.				.48	1.21	.08					.34						.06									.05						2.22
Richmond K.	.20			.75	.35	.05					.60															.10						2.05
Valley View, Lock No. 9‖ K.				.62	.21	.03	.12			.45																.05						1.48
Vanceburg, Dam No. 32 ‖ O.				.14	.06						.35															.17						0.72
Williamsburg‖ C.					.45	.02	.46				.43						.05									.23						1.64
Willow, Lock No. 13‖ K.					.32	.26					.53						.15									.05						1.11
Winchester T.				.15	.10	T.				.34																						0.59

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

; Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. ¶Lone Oak.

Daily Temperatures for September, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.	Maximum	94	91	92	90	86	75	80	85	90	88	79	79	73	78	81	75	72	73	80	80	88	92	89	87	65	65	67	73	80	88	..	81.2
Calhoun	Minimum	71	72	72	71	68	64	65	66	60	71	61	55	51	45	59	53	48	40	59	49	45	55	62	56	45	45	43	40	46	51	..	56.1
	Maximum	97	95	91	91	87	75	88	86	92	88	79	81	76	77	81	79	70	77	84	81	85	91	92	86	82	67	67	72	82	86	..	82.8
Earlington	Minimum	69	71	72	72	73	64	65	68	58	72	60	52	48	44	61	50	39	36	62	50	45	55	68	68	64	45	38	35	43	47	..	56.5
	Maximum	96	94	91	91	83	71	..	84	91	85	78	80	87	77	81	77	70	78	84	79	77	92	89	86	76	65	66	74	82	87	..	*81.2
Greenville	Minimum	66	68	70	68	67	61	..	64	57	68	59	52	48	41	55	48	40	35	57	49	43	51	57	61	54	44	39	33	41	46	..	*53.2
	Maximum	98	90	91	90	80	88	88	87	93	97	82	82	75	79	86	74	74	78	82	83	92	95	90	86	73	67	69	75	80	89	..	83.8
Henderson	Minimum	70	69	72	70	67	63	63	64	71	72	60	51	48	41	60	52	36	38	60	43	41	52	63	63	52	44	38	37	44	51	..	55.1
	Maximum	98	89	92	88	86	78	81	85	92	79	80	82	75	78	82	76	70	78	89	82	91	92	90	85	72	66	67	74	83	88	..	82.3
Hopkinsville	Minimum	69	73	70	70	71	64	66	68	64	66	62	56	50	44	55	52	44	37	48	54	56	55	59	63	65	46	42	38	45	49	..	56.6
	Maximum	94	88	89	81	81	80	81	83	90	88	82	81	77	78	84	82	73	80	86	82	91	92	90	86	81	75	68	76	83	85	..	82.9
Lovelaceville	Minimum	70	70	70	72	68	64	69	66	61	69	58	52	50	42	58	56	40	35	45	54	48	56	57	64	55	44	39	37	44	46	..	55.3
	Maximum	95	90	86	83	79	80	81	86	92	85	82	83	76	79	86	77	73	80	89	85	92	93	90	86	80	62	62	74	78	85	..	82.2
Mayfield	Minimum	69	71	71	72	69	64	69	67	64	72	60	54	52	45	57	58	45	43	60	56	53	61	64	66	58	45	43	40	47	52	..	58.1
	Maximum	92	88	87	89	81	78	81	82	88	78	77	76	73	74	77	75	70	76	78	77	84	90	87	85	84	65	66	69	77	83	..	79.8
Owensboro	Minimum	69	69	70	69	66	62	63	63	69	69	64	49	42	45	52	45	35	34	47	45	52	59	60	63	47	42	41	44	48	..	..	54.9
	Maximum	97	88	90	84	77	80	85	85	92	83	82	83	75	78	85	75	73	80	87	83	91	94	92	88	82	67	68	74	82	85	..	82.8
Paducah	Minimum	69	71	72	73	70	65	70	66	58	72	59	51	48	41	61	63	36	35	61	64	47	57	61	68	56	44	39	37	45	47	..	56.6
	Maximum	94	88	88	87	78	76	81	82	90	80	79	79	72	77	81	73	71	79	82	81	88	89	91	98	78	65	66	73	80	84	..	80.7
Princeton	Minimum	71	74	72	72	69	65	68	69	62	72	62	55	51	45	59	57	45	39	57	54	51	57	58	60	56	47	43	41	47	50	..	57.5
	Maximum	96	90	88	89	84	71	..	..	..	..	..	..	91	76	80	74	69	78	87	79	85	92	88	87	74	65	67	71	79	86	..	*81.1
Russellville§§	Minimum	68	73	70	69	69	64	64	..	..	..	..	..	43	53	51	44	36	41	51	47	53	61	60	65	45	41	36	42	48	..	*53.9
Central Division.	Maximum	93	93	90	92	76	79	84	85	85	79	76	77	69	78	75	71	67	73	74	75	81	87	87	87	68	65	65	76	78	86	..	79.0
Anchorage	Minimum	68	67	67	68	65	62	62	60	58	63	60	59	48	43	39	49	38	36	53	45	43	48	54	55	55	41	42	34	44	47	..	52.8
	Maximum	93	92	90	92	83	83	90	92	89	82	77	78	73	75	80	75	70	75	71	79	84	85	85	85	72	66	65	70	77	83	..	79.8
Bowling Green	Minimum	72	71	71	72	70	66	70	69	64	71	63	58	58	48	55	55	48	43	57	54	56	55	62	59	64	47	47	42	46	52	..	58.7
	Maximum	91	90	92	89	76	78	89	86	90	79	75	78	71	76	79	77	69	76	79	74	85	91	89	87	84	67	67	74	81	88	..	80.6
Danville	Minimum	67	65	65	69	58	61	66	68	67	62	64	51	49	42	47	47	40	33	47	41	40	48	54	57	54	46	48	48	34	40	45	51.9
	Maximum	95	95	93	93	90	80	82	88	90	87	77	78	72	78	78	78	73	80	79	71	74	77	84	90	90	88	84	67	78	82	80	82.3
Dix Dam	Minimum	70	69	69	68	69	67	68	65	57	64	66	52	53	43	54	48	43	37	41	45	40	48	52	57	58	47	35	43	41	47	..	53.9
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Eubank	Minimum	93	91	88	91	89	74	76	84	86	75	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	73.5
	Maximum	64	60	62	61	61	66	64	64	61	63	62	49	39	38	47	43	43	33	43	47	39	44	50	52	47	49	42	32	38	44	..	50.2
Frankfort	Minimum	95	95	93	92	77	80	87	81	89	75	80	82	71	75	82	76	71	76	77	76	87	93	92	87	78	67	66	74	82	90	..	81.6
	Maximum	69	69	67	70	67	64	65	64	55	61	66	52	51	43	54	48	40	38	50	38	39	42	49	54	56	44	43	35	42	45	..	52.7
Glasgow	Minimum	95	93	90	92	84	82	85	81	87	70	71	68	60	56	75	60	59	70	84	72	75	85	89	88	60	50	60	62	70	70	..	74.9
	Maximum	70	69	66	65	68	65	65	67	60	60	62	60	50	42	55	45	43	37	45	50	44	55	60	56	50	45	38	38	58	60	..	54.9
Greensburg	Maximum	94	98	94	93	88	76	84	82	93	85	78	80	75	78	82	81	70	79	84	79	88	92	89	87	83	69	68	70	79	87	..	82.8
	Minimum	67	65	66	67	66	64	64	63	55	65	61	50	49	38	45	45	36	32	46	46	37	42	51	62	62	45	41	30	37	42	..	50.7
Irvington	Maximum	94	91	91	92	80	76	82	88	88	80	77	76	70	73	78	73	67	73	77	76	81	90	88	86	74	66	64	70	78	85	..	79.8
	Minimum	72	71	73	73	67	63	66	64	59	69	62	55	51	44	60	52	44	40	59	46	46	51	63	62	52	45	44	40	45	51	..	56.3
Leitchfield	Maximum	95	92	92	93	82	72	78	*82	91	81	78	78	70	75	80	74	68	76	80	78	86	91	88	87	77	64	65	70	80	87	..	80.3
	Minimum	70	69	70	70	67	64	67	64	58	68	60	54	49	42	56	50	42	32	55	49	43	51	60	59	54	43	42	39	43	50	..	54.7
Lexington	Maximum	97	97	95	93	86	79	85	80	90	80	75	79	71	76	80	71	69	76	76	77	86	93	92	89	81	66	67	72	83	91	..	81.7
	Minimum	72	71	70	70	68	62	64	60	58	65	54	51	46	41	52	49	42	39	48	43	43	50	56	59	53	46	42	38	42	49	..	53.3
Louisville	Maximum	92	92	89	90	76	78	85	81	89	77	76	75	68	73	78	70	68	73	73	74	81	90	87	85	72	63	63	69	77	87	..	78.4
	Minimum	75	74	74	74	66	63	61	66	59	69	64	56	51	48	61	51	45	46	54	45	50	53	64	66	52	46	43	44	51	53	..	57.4
Do. Bowman Field	Maximum	92	93	89	90	74	76	88	83	92	75	75	75	68	73	78	70	67	78	78	75	85	91	90	85	73	64	64	71	88	88	..	79.3
	Minimum	73	72	73	72	72	63	62	64	55	59	65	55	50	40	58	52	42	40	59	43	45	47	59	68	67	45	42	37	47	49	..	55.7
Mammoth Cave	Maximum	93	92	90	89	90	81	79	79	89	78	77	78	69	74	78	64	64	78	64	62	68	69	62	85	89	85	84	74	64	68	57	79	..	*76.1
	Minimum	65	65	70	69	66	66	67	64	56	66	61	51	48	37	51	45	39	38	52	46	63	70	55	61	54	43	41	33	38	..	..	*54.2
St. John	Maximum	95	92	90	92	78	76	80	81	88	83	79	78	75	76	81	76	70	77	80	80	85	92	88	87	80	69	68	72	80	88	..	81.2
	Minimum	68	67	69	69	66	63	66	64	58	68	60	52	49	42	54	48	40	35	55	46	42	47	55	58	63	44	41	38	42	45	..	53.8
Shelbyville	Maximum	95	97	94	95	79	79	88	80	91	79	76	77	71	78	80	75	70	78	75	77	86	93	94	90	78	69	66	75	85	92	..	81.9
	Minimum	70	69	67	69	64	62	61	63	56	63	63	51	49	39	52	50	40	38	51	41	43	47	56	58	54	42	42	38	44	49	..	53.1
Smith's Grove	Maximum	96	91	92	90	87	74	81	*82	91	78	80	80	72	77	81	77	69	76	84	79	87	92	88	89	77	66	68	73	82	87	..	81.5
	Minimum	69	68	69	70	68	65	68	67	61	66	63	56	51	44	51	49	44	38	56	52	48	53	59	58	60	46	44	39	43	50	..	55.8
Stearns	Maximum	88	88	88	86	86	86	83	82	86	78	75	76	65	72	77	74	65	73	79	74	84	85	84	82	82	79	64	67	76	82	..	78.9
	Minimum	68	68	68	69	67	68	66	61	62	64	51	53	42	47	50	46	38	39	51	49	54	60	57	51	51	43	35	42	49	..	..	55.0
Williamstown	Maximum	97	97	97	96	91	80	88	84	92	86	80	81	76	80	81	77	73	79	77	80	88	94	95	92	88	71	71	77	82	91	..	84.5
	Minimum	70	71	71	71	65	59	59	62	52	62	64	52	50	45	66	51	42	40	66	41	44	51	55	62	65	43	42	40	46	51	..	54.6
Eastern Division.	Maximum	91	91	94	92	85	78	83	78	86	80	76	77	68	78	77	72	68	75	76	72	81	84	92	86	87	68	65	67	81	88	..	79.7
Ashland	Minimum	70	69	69	69	70	63	67	63	56	60	67	56	54	47	50	45	46	39	48	37	40	44	51	58	51	52	42	41	43	45	..	53.6
	Maximum	92	93	92	85	86	76	80	81	88	87	76	78	71	75	73	73	67	68	77	75	85	88	85	..	..	..	..	..	..	..	..	*79.7
Berea	Minimum	69	70	70	73	69	64	66	64	59	65	60	51	50	44	55	53	44	34	45	45	43	49	52	57	..	49	43	35	43	48	..	*54.0
	Maximum	88	90	90	85	90	87	82	82	90	86	76	74	74	75	79	78	70	73	78	74	81	83	84	83	82	81	68	66	71	77	80	80.0
Cumberland	Minimum	60	64	66	67	65	66	68	67	65	58	62	54	56	56	45	50	51	38	46	44	41	49	53	47	47	42	42	48	44	45	..	54.2
	Maximum	95	96	93	90	84	78	84	83	88	81	76	80	76	76	83	77	73	77	78	77	72	76	87	91	91	89	87	71	66	73	82	81.9
Farmers	Minimum	64	65	64	65	66	61	60	54	50	54	63	50	51	41	46	35	36	29	40	30	31	37	41	40	50	48	50	31	36	39	..	47.3
	Maximum	93	94	92	88	89	78	79	81	88	79	78	80	70	76	75	78	68	76	76	75	82	86	87	86	85	68	66	72	80	85	..	80.4
Heidelberg	Minimum	69	68	65	69	65	65	69	65	59	67	58	57	43	43	44	47	36	33	43	44	37	45	51	53	47	53	40	44	40	43	..	52.8
	Maximum	93	96	94	91	77	79	83	79	87	80	75	79	69	75	78	74	68	75	72	72	80	90	90	89	84	64	64	71	77	86	..	79.7
Maysville	Minimum	70	70	78	70	67	61	63	61	57	58	65	52	56	45	49	43	39	39	49	37	40	44	48	56	60	61	62	60	67	46	..	55.8
	Maximum	89	90	89	87	78	84	81	93	85	80	79	74	72	77	76	70	72	80	78	85	81	80	79	79	73	67	69	74	78	..	..	*79.3
Middlesboro	Minimum	65	64	64	66	66	69	69	69	61	61	54	56	47	45	50	51	41	46	56	50	55	55	49	50	54	44	45	45	48	..	..	*65.0
	Maximum	94	95	93	90	88	84	83	80	88	78	79	81	75	79	78	75	73	75	78	80	77	85	78	80	81	89	85	68	69	72	80	80.7
Mount Sterling	Minimum	67	68	68	68	65	68	60	62	65	68	57	51	50	40	49	40	33	35	39	42	40	44	51	55	50	42	38	42	40	44	..	50.9
	Minimum	66	68	68	68	65	68	60	62	65	68	57	51	50	40	49	40	33	35	39	42	40	44	51	55	50	42	38	42	40	44	..	51.0
Pikeville	Maximum	95	95	93	90	89	77	81	82	82	80	68	76	68	76	82	80	68	76	82	80	70	77	77	84	85	85	84	86	67	63	70	80	82	..	81.0
	Minimum	67	70	70	70	71	68	70	58	61	61	66	58	59	50	47	53	49	44	49	46	45	49	56	58	58	52	45	47	43	49	49	86.3
Pippapass	Maximum	94	92	94	88	92	80	87	82	90	83	77	87	73	80	85	82	73	77	83	82	89	90	89	91	90	91	89	76	64	76	83	91	..	84.0
	Minimum	66	65	67	66	65	67	69	67	59	62	84	61	64	64	69	78	69	59	67	79	85	89	88	87	88	69	64	51	82	89	..	78.4
Quicksand	Maximum	93	95	92	91	91	85	83	81	87	89	82	84	61	64	64	69	78	69	59	67	79	85	89	88	87	88	69	64	51	82	89	..	81.0
	Minimum	67	66	67	50	66	64	62	56	57	58	59	55	54	45	41	46	44	37	42	32	39	37	42	49	52	48	48	39	44	40	42	..	51.0
Richmond	Maximum	96	90	90	92	88	78	78	80	78	87	78	75	80	72	74	76	73	70	75	78	78	84	90	88	85	82	70	70	72	80	..	79.9
	Minimum	72	72	70	73	70	65	68	66	60	67	67	55	55	47	55	53	45	43	56	45	48	53	60	62	62	52	45	40	46	54	..	57.5
Williamsburg	Maximum	92	92	92	86	91	84	87	83	89	92	79	80	76	79	72	74	79	72	68	74	78	76	84	90	88	86	82	87	66	72	83	85	..	81.8
	Minimum	70	70	68	72	68	62	64	62	56	64	64	52	50	43	53	50	40	41	54	42	43	48	56	60	56	46	42	38	44	51	..	54.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
*, †, ‡ etc. indicate respectively 1, 2, 3 etc., days missing from record.
W B O Louisville. 10-25-37-1100

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., OCTOBER, 1937 No. 10

GENERAL SUMMARY.

After a warm week at the beginning of the month, weather much cooler than normal predominated. Three lengthy cold spells, with but little sunshine, were very unfavorable for curing late hay and drying out shocked corn. Freezing temperatures and killing frosts on the 14th and 15th ended the growing season. Corn and tobacco had all matured at this time; but some damage resulted to late potatoes and sorghum, which had been delayed by the dry weather of the preceding month.

Good rains in the first week furnished the moisture so badly needed as a preparation for seeding. Soil already broken and prepared, also land recently in corn and tobacco, received ample rain to bring up the grain. Unbroken land was generally softened enough to work well. This rain started late potatoes into strong growth, but the persistent low temperature that followed retarded their progress, and frost within two weeks ended their development at a time when most of them were about half the desired size. Pastures improved slowly in most places, but had not received enough rain everywhere. Occasional freezes and many frosts so reduced their growth that extensive feeding soon became necessary.

Heavy rains shortly after the middle of the month benefited the fall grains already up and insured complete germination of the later sowings. In many places the ground was made too wet to be worked for several days, while the low temperature and lack of sunshine caused it to dry very slowly. This condition, together with the showery weather in the last two weeks, interfered seriously with the later stages of wheat sowing and damaged considerable late hay. It brought conditions favorable for tobacco stripping, which began in the thoroughly cured earlier cuttings.

Corn gathering commenced in the second decade, but the rains soon made the fields too wet, and rendered it unsafe to crib the corn in its damp condition. For these reasons gathering decreased or almost stopped toward the end of the month. Except for the ten day period from the 6th to 16th, the weather was exceptionally unfavorable for the usual activities of this month.

TEMPERATURE.

Temperatures 5° to 15° above normal occurred in the period 1st-6th and on the last two days. In the three weeks from the 7th to 28th, seasonal temperatures were reported on only two or three days. The coldest weather occurred on the 8-10th, 13-16th, and 22d-24th, when daily deficiencies ranged from 10° to 20°. The coldest days were the 15th and 24th, with minimum temperatures varying between 20° and 26° at most stations. Extremes for the State were 93° at Williamstown on the 1st and 17° at Farmers on the 15th.

PRECIPITATION.

At most stations in the northeastern part of the State the monthly precipitation was near the average. In the southern and western counties it exceeded the normal amount by 25 to 100 per cent. The heaviest rainfall occurred in the southeastern mountain section, and north of the lower Cumberland, where several stations reported more than six inches. The range for the State was between 2.17 inches at Cynthiana and 7.39 inches at Pippapass. Moderate to heavy rain occurred in the periods 2d-5th and 17th-22d. Irregularly distributed showers fell on the 9-10th, 13-14th, and 24-28th. Snow, ranging in amount from mere flurries to 2.0 inches, occurred in the northern counties on the 24th. No thunderstorms were reported.

MISCELLANEOUS.

Rivers:—Despite the heavy rainfall, river stages showed only slight fluctuations and remained at or near pool levels during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av., hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.04	30.47	15	29.40	19	8.6	28	w.	19	84	55	62	59
Cincinnati .....Ohio	30.06	30.54	15	29.42	19	7.7	30	sw.	19	82	57	64	51
Evansville..... Ind.	30.05	30.53	15	29.45	19	9.0	36	sw.	19	78	54	59	58
Louisville .....Ky.	30.06	30.54	15	29.49	19	10.9	37	sw.	19	79	58	60	44

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889.....	52.0	89	23	2.40	....	..	.	..	..
1890.....	55.7	87	23	2.94	....	..	..	.	..
1891.....	54.8	92	21	0.78	....	..	..	..	..
1892.....	57.3	97	19	0.51	....	..	..	..	..
1893.....	56.4	90	19	4.00	....	..	..	..	..
1894.....	58.6	92	25	1.36	....	5	..	..	..
1895.....	52.2	89	14	1.24	....	4	21	5	5
1896.....	55.8	90	25	1.71	....	5	18	7	6
1897.....	63.2	96	26	1.10	0.0	4	25	3	3
1898.....	57.1	93	21	4.19	T.	10	12	9	10
1899.....	61.3	93	26	2.42	0.0	5	18	6	7
1900.....	64.5	94	29	2.29	0.0	5	16	8	7
1901.....	58.1	93	25	1.57	0.0	4	22	6	3
1902.....	60.1	91	25	2.34	T.	5	18	7	6
1903.....	57.7	96	19	2.22	T.	5	19	6	6
1904.....	57.2	93	20	0.52	0.0	2	21	6	4
1905.....	57.0	90	25	4.95	0.0	9	14	5	12
1906.....	56.9	91	20	1.51	T.	7	15	5	11
1907.....	55.5	93	20	2.97	T.	6	18	5	8
1908.....	57.1	92	20	0.71	0.0	3	20	6	5
1909.....	55.2	94	18	2.11	T.	6	19	5	7
1910.....	61.4	96	17	4.45	0.1	6	20	4	7
1911.....	59.9	94	27	3.71	0.0	10	13	6	12
1912.....	59.5	92	25	1.42	0.0	4	18	7	6
1913.....	56.9	97	23	3.55	T.	9	14	5	12
1914.....	59.7	91	22	5.10	0.0	9	13	8	10
1915.....	60.6	90	27	3.40	0.0	6	18	7	6
1916.....	57.6	97	24	2.59	T.	6	20	5	6
1917.....	51.1	90	20	3.18	0.1	7	14	8	9
1918.....	62.3	91	32	3.81	0.0	10	13	7	11
1919.....	65.6	98	35	7.99	0.0	15	8	7	16
1920.....	61.0	93	24	1.64	0.0	4	21	5	5
1921.....	57.1	90	24	2.31	0.0	6	20	6	5
1922.....	60.2	96	25	2.28	0.0	6	20	4	7
1923.....	56.8	89	19	1.68	0.2	5	18	5	8
1924.....	61.1	91	24	0.27	0.0	1	23	5	3
1925.....	52.9	88	13	7.09	3.2	11	6	7	18
1926.....	59.3	94	25	5.96	T.	11	12	8	11
1927.....	60.7	92	27	2.61	0.0	4	20	6	5
1928.....	61.6	95	21	3.93	0.0	8	17	7	7
1929.....	56.4	85	25	3.65	T.	8	14	5	12
1930.....	55.8	94	16	1.33	T.	6	16	7	8
1931.....	62.0	93	28	3.01	0.0	8	17	6	8
1932.....	56.0	85	24	3.31	0.0	7	17	5	9
1933.....	57.4	88	23	2.05	0.0	6	19	5	7
1934.....	59.5	88	22	0.88	0.0	4	11	5	5
1935.....	59.5	91	22	2.51	0.0	8	15	7	8
1936.....	58.5	88	24	3.47	0.0	9	10	9	12
1937.....	55.7	93	17	4.27	T.	12	13	6	12
Period	58.2	98	13	2.76	0.1	6	17	6	8

49-year averages.

Climatological Data for October, 1937.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall	437	33	57.1	− 2.5	89	1†	28	15†	42	6.50	+3.20	2.67	0	6	....	....	....	....	Tennessee Valley Authority.
Earlington	Hopkins	437	33	57.1	− 2.5	89	1†	28	15†	42	6.50	+3.20	1.92	0	12	17	1	13	n.	W. A. Taylor.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	6.69	....	3.20	T.	12	....	....	....	....	Brick Southworth.
Greenville	Muhlenburg	519	20	56.1	− 3.2	90	6	25	24	45	4.07	+0.35	1.55	0	8	15	4	12	s	Lockmaster.
Henderson	Henderson	382	23	56.3	....	92	1	27	15	40	6.53	+3.35	2.02	0	11	12	8	11	ne.	C. R. Lovell.
Hopkinsville	Christian	524	41	56.0	− 4.8	90	1	24	24	45	4.31	+0.88	1.13	0	10	21	5	5	s.	Frank Street.
Lovelaceville	Ballard	....	8	56.4	− 3.6	88	6	21	24	41	5.57	+2.05	2.40	0	7	20	5	6	s.	W. R. Morris.
Mayfield	Calloway	364	28	56.7	− 3.8	86	30	26	24	35	4.94	+1.68	1.91	0	10	16	7	8	n.	Blaine Malone.
Murray	Graves	412	11	56.9	− 3.1	88	6	26	24	34	5.27	+1.81	1.52	0	12	15	5	11	sw.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	55.5	− 3.2	85	1†	30	24	41	5.13	+1.68	1.75	0	9	10	6	15	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4	....	....	....	....	....	....	....	4.49	+1.56	1.92	0	11	....	....	....	....	Lockmaster.
Paducah **	McCracken	316	20	58.0	− 3.8	89	1†	26	24	40	5.51	+2.19	3.18	T.	12	19	4	8	....	Joe Lagore.
Princeton	Caldwell	529	30	56.7	− 2.5	88	6	24	24	45	6.02	+2.85	1.42	T.	11	14	6	12	sw.	Dr. W. L. Cash.
Ramsey, Lock 2‡	McLean	384	20	....	....	....	....	....	....	....	4.14	+0.94	1.72	0	11	....	....	....	....	Lockmaster.
Russellville	Logan	590	26	55.2	− 5.2	89	6	25	24	44	3.08	+0.20	1.04	0	7	17	2	12	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	6.06	+3.11	3.29	0	12	....	....	....	....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	5.27	+2.20	1.77	T.	12	....	....	....	....	Lockmaster.
Anchorage	Jefferson	700	36	54.6	− 2.1	88	1	27	15	43	5.03	+2.05	1.65	1.0	12	14	5	12	se.	C. E. Barret.
Bowling Green	Warren	500	48	57.0	− 2.9	85	6	30	24	34	4.87	+1.66	1.30	0	9	8	6	17	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20	....	....	....	....	....	....	....	4.17	+1.13	1.50	0	12	....	....	....	....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	5.85	+2.67	2.69	T.	15	....	....	....	....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	36	....	....	....	....	....	....	....	6.03	+3.16	0.93	0	5	....	....	....	....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	11	....	....	....	....	....	....	....	2.93	+0.40	0.70	0	10	....	....	....	....	Lockmaster.
Danville	Boyle	540	4	54.3	....	89	6	24	15	43	3.65	+1.73	1.22	T.	14	12	10	9	s.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	57.0	− 1.8	88	6	26	14	43	3.05	+0.08	0.96	0	10	9	12	10	s.	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Lockmaster.
Eubank	Pulaski	1177	43	....	....	....	....	....	....	....	5.23	+2.07	2.00	0	6	9	11	11	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	55.4	− 2.0	89	1	24	15	41	3.88	+1.17	0.86	T.	14	9	8	14	w.	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	2.93	+0.07	0.67	0	12	....	....	....	....	Lockmaster.
Glasgow	Barren	780	11	....	....	....	....	....	....	....	3.94	+1.23	0.95	0	7	21	4	6	w.	R. L. Beatty.
Grant, Dam 38	Boone	780	12	....	....	....	....	....	....	....	3.41	+0.96	0.84	0	13	....	....	....	....	Lockmaster.
Greensburg	Green	581	44	54.5	− 2.6	89	6	23	15	45	4.06	+0.66	1.10	0	13	2	4	25	n.	Mrs. Bettie K. H. Alcorn
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	3.89	+1.01	0.95	0	17	....	....	....	....	Lockmaster.
Irvington	Breckinridge	646	39	56 4	− 0.8	86	1†	30	15	37	3.34	+0.31	1.75	2.0	11	16	3	12	w.	W. J. Piggot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	3.76	+0.44	1.23	0	11	....	....	....	....	Walter Killion.
Leitchfield	Grayson	635	41	56.0	− 2.8	87	1†	28	15	37	4.97	+1.51	1.93	0	11	11	7	13	sw.	H. H. Willis.
Lexington	Fayette	989	53	53.9	− 3.5	87	6	27	15	35	3.96	+1.37	0.82	T.	13	9	10	12	....	U. S. Weather Bureau.
Little Hickman, Lock 8¶	Jessamine	560	26	....	....	....	....	....	....	....	3.36	+0.54	1.00	0	9	....	....	....	....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	3.06	+0.20	0.56	0	10	....	....	....	....	Lockmaster.
LOUISVILLE	Jefferson	459	64	56.0	− 3.3	87	1	31	24	31	4.48	+1.83	1.89	1.2	13	10	7	14	n.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	....	55.8	....	89	1	29	15	34	3.47	....	0.77	0	13	....	....	....	....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	....	52.2	....	85	6	23	15	34	3.94	....	1.25	0	11	15	3	13	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	14	....	....	....	....	....	....	....	4.29	....	0.58	0	8	....	....	....	....	....
St. John	Hardin	777	41	56.2	− 1.5	90	6	26	15	43	3.69	+0.42	1.24	T.	10	19	4	8	....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23	....	....	....	....	....	....	....	3.87	+1.09	0.71	0	14	....	....	....	....	Lockmaster.
Shelbyville	Shelby	825	48	54.8	− 2.4	91	1	26	15	36	3.64	+0.72	1.20	1.0	12	9	0	22	s.	Miss Ruth Ratta.
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	4.17	....	1.24	0	10	11	6	14	sw.	A. McLeod.
Smith's Grove	Warren	607	....	57.0	....	88	6	28	24	41	3.93	....	1.15	0	10	....	....	....	....	Airway Station.
Stearns	McCreary	1400	35	54.5	....	84	6	25	24	36	3.95	....	1 61	T.	14	....	....	....	....	Geo Wright
Tyrone, Lock 5¶	Anderson	524	19	....	....	....	....	....	....	....	3.43	+0 45	0.54	T.	12	....	....	....	....	Lockmaster.
Williamstown	Grant	943	34	56.8	+ 0.9	93	1	26	26	44	2.82	−0.17	1.25	0	10	13	6	12	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	20	....	....	....	....	....	....	....	4.05	+1.02	1.05	0	12	....	....	....	....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	5.36	....	2.08	T.	16	10	7	14	sw.	W. A. Worthington.
Ashland	Boyd	534	18	56.4	− 1.4	90	5†	25	15	40	2.81	+0.06	0.72	T.	12	10	5	16	e.	Lockmaster.
Berea	Madison	1070	32	*55.4	− 3.2	86[a]	6	23[a]	15	35[a]	3.16	+0.08	0.81	T.	13	9	5	17	sw.	Luther M. Ambrose.
Burkesville	Cumberland	590	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	C. D. Norris.
College Hill, Lock 11	Madison	611	27	....	....	....	....	....	....	....	3.64	+0.59	0.70	0	12	....	....	....	....	Lockmaster.
Cumberland	Harlan	1440	....	54.7	....	84	2†	25	15	35	6.70	....	1.40	T.	12	16	11	4	nw.	C. Bertrand Fields.
Cynthiana	Harrison	684	19	....	....	....	....	....	....	....	2.17	−0.40	0.75	0	9	....	....	....	....	P. H. Renoe.
Falmouth	Pendleton	600	48	....	....	....	....	....	....	....	2.52	−0.09	0.62	0	11	....	....	....	....	J. V. Oldham.
Farmers	Rowan	668	29	54.2	− 2.3	89	5†	17	15	48	3.73	+0.82	0.85	0	13	12	6	13	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12	....	....	....	....	....	....	....	3.27	−0.04	0.61	0	12	....	....	....	....	C. A. Glascock
Ford, Lock 10¶	Clark	637	21	....	....	....	....	....	....	....	3.34	+0.75	0.86	0	12	....	....	....	....	Lockmaster.
Greenup, Dam 30	Greenup	1197	9	....	....	....	....	....	....	....	3.52	+1.36	1.01	0	14	....	....	....	....	Lockmaster.
Hazard	Perry	869	13	....	....	....	....	....	....	....	5.49	+2.45	2.60	0	16	....	....	....	....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	55.1	....	86	6	31	17†	53	4.2*	+1.17	1.16	0	13	7	9	15	sw.	Lockmaster.
Jackson	Breathitt	840	17	....	....	....	....	....	....	....	5 21	....	1 38	T.	8	....	....	....	....	Jas. T Goff.
Jenkins	Letcher	776	....	....	....	....	....	....	....	....	6.55	+3.41	2.88	T.	14	....	....	....	....	B. J Howard.
Louisa	Lawrence	584	33	....	....	....	....	....	....	....	3.52	+0.65	0.60	0	11	....	....	....	....	B. H Griffin.
Maysville	Mason	524	17	55.4	− 2.0	90	6	25	15	40	2.57	−0.69	0.40	T	12	8	11	12	sw.	Lockmaster.
Middlesboro	Bell	1128	40	*56.0	− 1.3	80[b]	6	27[b]	15	41[b]	4.66	+1.67	1.22	0	9	14	11	6	....	Matthew Woodson
Mount Sterling	Montgomery	930	41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	W. R. McKee.
Oneida	Clay	....	47	....	....	....	....	....	....	....	5.57	....	1.85	0	9	....	....	....	....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	10	....	....	....	....	....	....	....	2.57	+0.15	0.71	0	13	....	....	....	....	Lockmaster.
Paintsville	Johnson	567	3	....	....	....	....	....	....	....	4.27	....	0.81	0	16	....	....	....	....	Manuel Robinson.
Pikeville	Pike	636	31	54.8	....	86	6	28	15	39	5.43	+2.57	1.06	0	16	....	....	....	....	U. S Weather Bureau.
Pippapass	Knott	1035	3	56.0	....	90	6	25	15	41	7.39	....	2.15	T.	17	20	0	11	....	Caney Run Com. Cen.
Quicksand	Breathitt	732	11	*53.6	− 4.0	86[a]	2†	24[a]	15	49[a]	5.01	+1.51	1.31	0	11	....	....	....	....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	3.83	+0.94	1.06	0	14	....	....	....	....	Lockmaster.
Richmond	Madison	926	46	57.2	− 1.8	88	1	28	15	35	3.65	+0.68	0.90	0	12	13	0	18	....	T. W. Crooke.
Valley View, Lock 9	Madison	571	24	....	....	....	....	....	....	....	2.41	+0.59	0.91	0	10	....	....	....	....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	3.85	+0.85	1.48	0	14	....	....	....	....	Lockmaster.
Williamsburg	Whitley	999	38	56.2	− 3.3	89	6	28	15	48	4.81	+1.97	1.74	T.	12	13	11	7	....	Wadely West.
Willow Lock 13	Lee	646	20	....	....	....	....	....	....	....	4.09	+1.47	1.07	T.	11	....	....	....	....	Lockmaster.
Winchester	Clark	964	....	54.4	....	86	2	25	15	34	2.66	....	0.78	0	13	....	....	....	....	Airway Station.
State averages and extremes		....	....	55.7	....	93	1	17	15	53	4.27	+1.51	3.29	T.	12	13	6	12	sw.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, *, [b], [a], appearing in the table indicate number of days missing; for example, b represents two days, etc.

* Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow §Lone Oak.

¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for October, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.				1.56		1.00											.43		2.67	.30												5.96
Carlington G.		1.08	1.23	1.03	.12				.16				.01				.76	1.92	.10			.05	.02			.02						6.30
Fords Ferry Dam 50‖ O.			2.10		.32	.87		T.		.05	.15			.02			1.23	3.20	.20	.10		T.	.01	T.	T.	.05						6.69
Greenville G.		.34	1.05	.36						.20			T.				.30	1.55	.15			.12										4.07
Henderson O.		.61	1.54	.17	T.					.10				.04			2.02	1.77	.16			.04	.05			.03						6.53
Hopkinsville C.		.55	1.13	.49						.11				.02			.60	.73	.85		.24					.09						4.31
Lovelaceville M.		.70	.50							.20				.05			2.00	2.60	.12													5.67
Mayfield M.		.62	.24	.14						.03			T.				1.65	1.91	.14		.03	T.				.11	.07					4.94
Murray T.		.75	.38	.78	.15					.06				.01			1.26	1.52	.08		.22	.03	T.			.03						5.27
Owensboro O.		.10	.90	.62	.39					.17			T.				.62	1.75	.48			T.		T.		.10						5.13
Owensboro, Dam 46 ‖ O.			1.09	.21	.17	T.	T.		T.	.13			T.	.14			.10	1.92	.55	.17			.02			.08						4.49
Paducah O.		.03	1.20	.08	.12					.04				.01			.55	3.18	.11	.13		.04	T.			.02						5.51
Princeton G.		.42	1.25	1.24						.12				.01			1.34	1.42	.10		.03	.03	T.	T.	T.	.06						6.02
Ramsey, Lock No. 2 ‖ G.			.98	.52	.02				T.	18				.02			.15	1.72	.40	.05		T.	.05			.05						4.14
Russellville ‖ G.				.22	1.04				.14								.03	.89	.37			.43										3.08
Uniontown, Dam 49‖ O.			1.83	.27	.04		.02		.05	.06			T	.01			.07	3.29	.26	.08		T.				.04						6.05
Central Division																																
Addison, Dam 45. ‖ O.			1.04	.49	.70		.12		.02	.18			T.	.11			.03	1.77	.67	.05		T.	T.			.09						5.27
Anchorage O.		.07	.87	.65	.14		.31		.12				.65				.15	1.65		T.	.09	.17	.16									5.03
Bowling Green G.		T.	.60	.80	1.50				.20					.02				1.15	.25			.50				.05						4.87
Brownsville, Lock No. 6 ‖ G.		.45	.50	.55	.20				.25					.06				1.50	.25	.09	T.	.38			.02	.12						4.17
Burnside ‖ C.			.20	2.69	.18				.07	.40			T.	.04				.09	.22	.32	.03	1.23	.03	.04	T.	.23	.08	T.				5.85
Carrollton ‖ (Lock No. 1) K.			.84	.43	.03													.93	.81													3.01
Cold Spring, Dam 36 ‖ O.			.66	.25	T.	.20	T.			.25	T.		.05	.02				.65	.70	.10		.05	T.			T.						2.93
Danville K.			.40	1.27	.27					.08				.03				.20	.28	.35		.50	.02	.04		.12	.11	.01				3.65
Dix Dam, Burgin ‖ K.		.33	.96	.12		.03			.55				.04				.14	.47			.40	.02									3.06
Eadsville ‖ C.																																
Eubank C.				2.00	1.30					.48									.69	.56			.80									5.23
Frankfort ‖ K.			.60	.86	.10	T.	.09			.27			.08	.18				.53	.55	.02	T.	.29	.02	T.		.06	.23					3.88
Geat, Lock No. 3 ‖ K.			.53	.84	.07	.04	.16			.22			.10	.13				.67	.55	T.			T.			.05	.12					2.98
Glasgow G.		.45	.50	.55	.20				.25					.06				.95			.74											3.94
Grant, Dam 33 ‖ O.			.84	.30		.07	T.		.02	.18	T.		.20	.05				.80	.78	.03		.03	.65	T.			.06					3.41
Greensburg G.		.15	.39	.46	.54			.39	.04								.03	1.10	.08		T.	.50	.10	.12		.15						4.05
High Bridge, Lock No. 7 ‖ K.			.40	.95	.20	.02	.05			.48				.04				.21	.71	.08	.03	.35	.02	.04		.08	.21	.02				3.89
Irvington O.		.15	.32	.26	.36		.06		.16				T.				.05	1.75	.12			.02	.09									3.34
Lancaster ‖ K.		.31	1.24	.22					.58								.10	.18	.27		.60				.14	.08	.02					3.76
Leitchfield G.		.15	.70	.50	.93				.21				T.	.02			.15	1.93	.07		.11	.20		T.								4.67
Lexington *** K.		.19	.40	.78	T.		.02		.57				.09				.26	.82	.17	T.	.48	.05	T.	T.		.09	.07					3.96
Little Hickman, Lock No. 8 ‖ K.			.43	1.09	.10				.10	.50				T.					.40			.50	T.			.13	.20					3.36
Lockport, Lock No. 2 ‖ K.			.47	.86	.36		.25		T.				.22					.47	.56			.15				.07	.15					3.06
LOUISVILLE*** O.		.09	.80	.50	.26		.16		.09			T.	.30				.35	1.56	.08		.05	.04	.18	T.		.02	T.					4.48
Do. Bowman Field O.			.64	.42	.29	.01	.04			.15			.12	.12				.77	.65	T.		.06	.13	.03		T.	T.					3.47
Mammoth Cave G.		.15	.70	.53	.16				.32								.29	1.25		T.	.16	.24	T.	T.	.02	.12						3.84
Munfordville G.			.57	.98	.34					.35				T.				.82	.65			.45	.12									4.29
St. John S.		T.	.65	.23	.60				.27				.10				.20	1.24	.15		T.	.20	.05	T.								3.69
Salvisa, Lock No 6 ‖ K.			.41	.71	.08	.06	.27			.51				.07				.33	.50	.06		.48	.02	T.		.10	.26	.01				3.87
Shelbyville S.		T.	.72	.49	.14		.08		.25				.25					1.20	.05	T.		.15	.18	T.		.04	.59	T.				3.64
Shepherdsville S.			.75		1.24	.12	.08		.27				.08					1.20	.10			.22	.13									4.17
Smith's Grove G.			.37	1.15	.34					.22				.05				.77	.48			.47	.02	T.		.12						3.99
Stegras G.			.38	1.61	.38	.05				.38			T.	.03				.18	.28	.23			.04	.10		.18	.13	.03				3.95
Tyrone, Lock No. 5 ‖ K.			.48	.54	.05		.03			.42			T.	.20				.50	.52		T.	.34	.03	T.		.10	.22					3.43
Williamstown L.			.75	.12			.12		.13				.10					1.25	.10			.10				.10	.05					2.82
Woodbury, Lock No. 4 ‖ G.			.64	.35	.68				.05	.14				.10			.03	1.06	.51	.08		.31			T.	.10						4.05
Eastern Division																																
Annville C.			.02	2.08	.27	.10			.01	.63				.12				.08	.19	.32	.02	1.26	.01	T.	T.	.15	.04	.03				5.36
Ashland ‖ O.					.72					.55		.01	.02					.09	.18	.09		.70	.22	.01		.02		.20				2.81
Berea K.		.05	.44	.81	.11		T.		.56				.01						.14	.10	.10	.63	.02			.16	.03					3.16
Burkeville																																
College Hill, Lock No. 11 ‖ K.			.20	.70	.14		.70			.65								.24	.05	.17	.02	.59				.15	.03	T.				3.64
Cumberland C.		.02	1.05	1.40	1.00				.42				.28				.03		.20	.10			T.		.80	1.10	.30				6.70
Cynthiana ‖ L.			.22	.20		.10			.30			.10		.20			.20		.75		.10				T.						2.17
Falmouth ‖ L.			.51	.25	.23	T.	.04			.16				.09				.44	.62	T.	T.	.15	.01			.02	T.					2.62
Farmers ‖ L.			.73	.85	.03		.08				.61			.14				.14	.16	.17	.06	.60				.12	.04					3.73
Flemingsburg ‖ L.			.23	.61		.06	.14			.46			.19	.31				.28	.23			.54		.09		.13						3.27
Ford, Lock No. 10 ‖ K.			.46	.86	.21		.25			.53				.03				.22	.16	.01		.49				.09	.03	T				3.34
Greenup, Dam 30 ‖ O.			.09	1.01	.04		.34			.51		.03	T.	.30				.15	.16	.04		.60	.16	T.		.04	.06	T.				3.52
Hazard ‖* K.				2.60	.40					.05	.60									.25	.70		.05	T.	.48		.28	.08				5.49
Heidelberg, Lock No. 14 ‖ K.			.27	1.16	.28	.03				.67				.10				.09	.26	.34	.04	.96		T.		.09	.05					4.29
Jackson K.			.45	1.38	.40					.75									T.	.38	T.	1.38	T.	T.		.19	.28					5.21
Jenkins ‖ B.			.42	2.88	.30	.08				.07				.08				.15	.10		.16	.55	.05			.08	1.02	.02				6.55
Louisa ‖ B.			.13	.80						.77				.11				.10	.12	.09	.55	.25				.05	.55					3.52
Maysville ‖ O.			.10	.34	T.		.09			.32			T.	.30				.35	.26	.14		.40	T.	.06	.03	.08						2.57
Middlesboro C.			1.22	1.08	.75				.47		.03							.41	.20							.35	.15					4.66
Mount Sterling L.																																
Oneida C.			.18	1.85	.87					.60								.18	.21			1.20				.30	.18					5.57
Oneonta Dam 35 ‖ O.			.70	.17	.04		.03		T.	.19			.06					.51	.71	.09	T.	.08	.01			.01	.04					2.57
Paintsville ‖ B.			.50	.71	.07	.02		.08		.68				.06				.03	.07	.16	.04	.81	.51			.06	.25	.42				4.27
Pikeville ‖ B.			.20	1.62	.12	.15				.67				.07				.01	.07	.14	.08	.29	.53	.63		.06	.53	1.06	T.			5.43
Pippapass K.		.45	.55	.45	2.15				.70	.08			.09	.63			.06		.04	.21	.06	.86	.08	T.		.75	.25	.54				7.39
Quicksand ‖ K.		.36	1.31							1.06				.09			.11		.05	.30	.20	.13	1.00		.40							5.01
Ravenna, Lock No. 12 ‖ K.			.21	1.06	.20	T.		T.		.67				.08				.03	.16	.08	.06	.96	.04	T.		.12	.08	.06				3.88
Richmond K.			.55	.90	.20					.60				.45				.20	.15	.20	.15	.60				.20	.05					3.65
Valley View, Lock No. 9 ‖ K.			.40	.91	.05		.53							.04				.11	.19		T.		.04	T.		.11	.04	T.				2.41
Vanceburg, Dam No. 32 ‖ O.			.15	1.48		.09	.42			.41	.03	.03		.28				.19	.20	.08		.35		.04		.10						3.85
Williamsburg ‖ C.			.04	1.74	.94					.26								.08	.16	.24		.68		.16		.19	.21	.01				4.81
Wilmore, Lock No. 13 ‖ K.			.28	.95	.30					.73				.08				.32	.22	.05	1.07					.10		.02				4.60
Winchester K.		.05	.78	.11			.22		.53				.65	.05		T.	T.	.36	.03		.02	.39	T.	T.		.06	.01					2.66

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station: precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

†Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. *Lone Oak.

Daily Temperatures for October, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Earlington	Maximum	89	81	71	83	55	89	82	66	60	65	71	72	66	49	58	65	68	70	66	66	61	53	43	51	76	71	57	62	78	81	76	68.6
	Minimum	51	56	57	57	70	67	57	37	47	40	41	44	46	32	28	36	43	57	52	46	52	35	30	28	42	52	37	30	36	55	49	45.6
Greenville	Maximum	87	74	70	85	85	90	80	65	58	66	72	71	62	49	60	65	65	70	68	78	61	55	42	49	76	71	57	64	78	84	75	68.7
	Minimum	50	54	56	64	67	68	54	35	43	37	39	44	44	31	26	35	40	55	60	42	51	34	27	25	38	51	34	28	33	52	47	43.5
Henderson	Maximum	92	69	72	83	87	88	75	68	59	70	73	75	60	43	58	64	59	69	67	68	58	49	43	49	76	68	59	66	78	76	75	67.8
	Minimum	52	56	57	67	70	67	49	37	48	38	45	51	44	32	27	36	43	57	60	45	49	33	29	29	39	46	35	31	39	52	42	45.0
Hopkinsville	Maximum	90	69	71	69	85	80	74	65	59	65	73	70	60	52	59	65	64	72	69	69	57	44	41	52	75	68	57	65	79	85	78	67.4
	Minimum	54	57	59	66	59	64	55	41	47	42	39	43	52	38	31	37	43	51	60	44	49	36	32	24	39	46	37	31	35	40	48	44.7
Lovelaceville	Maximum	87	78	70	83	87	88	81	65	62	67	72	67	60	50	55	63	60	67	66	67	64	60	50	60	77	69	60	66	78	84	74	68.9
	Minimum	50	56	55	67	70	63	52	38	38	36	36	42	45	31	28	38	48	60	51	44	52	40	32	21	32	44	34	28	34	44	52	43.9
Mayfield	Maximum	83	79	73	83	77	82	83	61	62	61	73	68	61	51	59	62	61	67	61	65	61	50	43	59	78	61	61	61	78	86	77	67.2
	Minimum	54	58	55	67	70	65	57	43	47	38	42	48	45	32	31	38	44	56	51	43	48	33	32	26	40	50	36	32	43	51	52	46.2
Murray	Maximum	86	74	71	79	86	88	76	64	66	62	72	63	62	49	55	62	58	68	65	62	60	47	40	56	74	66	57	65	66	78	75	66.0
	Minimum	52	52	68	68	71	68	58	50	44	43	48	49	46	34	32	42	49	57	52	45	46	37	30	26	43	58	42	36	36	47	55	47.9
Owensboro	Maximum	85	83	81	78	84	85	80	74	50	64	71	72	67	49	54	59	64	67	65	60	57	54	50	47	74	48	55	60	76	78	78	66.7
	Minimum	48	60	58	62	63	65	60	38	45	38	41	44	43	32	31	39	45	45	60	42	49	35	31	30	34	42	44	32	35	45	48	44.3
Paducah	Maximum	89	79	72	83	89	89	79	70	65	67	72	68	64	51	58	66	59	70	68	70	60	49	42	58	79	68	62	68	80	82	77	69.5
	Minimum	51	56	56	68	72	68	58	39	47	37	42	46	47	32	29	38	55	58	52	46	48	36	35	26	42	48	36	30	40	49	54	46.5
Princeton	Maximum	86	68	70	78	86	88	77	67	61	66	78	70	61	51	59	65	61	69	65	68	59	50	41	52	77	67	60	66	80	84	78	67.8
	Minimum	54	57	57	68	71	65	57	40	48	40	40	45	46	35	31	38	46	58	52	42	50	35	31	24	36	48	38	30	40	49	54	45.6
Russellville§§	Maximum	89	66	70	82	86	89	67	68	64	64	73	71	53	50	55	62	66	69	68	67	58	49	43	49	74	68	55	62	76	84	73	66.4
	Minimum	51	60	61	64	67	65	57	37	42	42	40	45	49	38	28	30	39	52	59	43	45	36	30	25	32	44	37	35	35	40	46	44.1
Central Division.																																	
Anchorage	Maximum	88	79	67	75	82	86	71	71	68	68	70	73	60	52	53	59	57	65	65	63	66	47	40	45	70	68	65	53	75	83	76	66.8
	Minimum	50	54	60	63	66	64	47	34	45	34	41	45	39	30	27	35	41	55	55	42	45	31	31	28	32	46	41	28	32	45	44	43.0
Bowling Green	Maximum	89	74	70	81	81	85	78	64	60	63	71	65	55	53	60	63	66	67	67	65	57	49	44	51	71	66	58	60	71	76	75	66.2
	Minimum	56	60	62	63	67	64	58	43	47	45	43	47	55	38	31	38	44	52	60	44	50	40	36	30	38	53	40	38	37	50	50	47.7
Danville	Maximum	82	83	67	79	85	89	79	61	53	60	70	73	60	51	53	61	69	66	73	62	62	50	42	44	74	69	56	58	78	79	67	66.3
	Minimum	51	49	60	62	63	60	51	38	43	35	35	44	42	29	24	23	37	53	44	41	41	36	32	28	31	52	40	28	35	55	39	42.3
Dix Dam	Maximum	85	84	72	78	84	88	84	65	60	63	70	72	60	54	68	68	66	72	72	62	62	52	45	41	70	69	60	56	69	79	75	67.5
	Minimum	50	50	62	65	66	64	53	36	5	40	42	48	46	26	32	35	57	62	54	45	46	40	36	31	40	60	46	37	43	56	45	45.4
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	45	50	60	60	62	60	58	35	41	33	33	38	44	28	24	32	42	46	48	40	44	38	33	33	51	54	39	34	39	39	45	42.8
Frankfort	Maximum	89	83	73	74	83	88	82	65	59	64	71	74	68	55	63	60	69	68	71	63	63	53	45	43	70	69	59	59	73	81	69	67.3
	Minimum	48	51	60	63	69	60	52	36	42	38	40	42	44	30	24	31	35	56	51	43	41	39	38	29	38	55	44	34	32	46	43	43.5
Glasgow	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Greensburg	Maximum	82	82	69	82	85	89	80	58	58	63	72	73	64	53	57	65	71	60	71	66	59	52	45	46	72	69	60	61	73	80	73	67.4
	Minimum	47	51	61	62	63	57	54	39	39	37	34	37	45	29	23	28	36	55	50	40	43	35	30	26	30	52	42	32	28	42	44	41.6
Irvington	Maximum	86	76	69	78	83	86	78	62	54	67	70	73	64	50	55	59	66	66	67	68	59	52	42	46	72	65	55	59	75	78	68	66.0
	Minimum	54	59	60	66	70	66	58	39	47	39	43	51	44	32	30	38	47	57	61	46	51	37	31	32	38	52	44	36	38	52	47	46.8
Leitchfield	Maximum	87	75	70	80	83	87	79	64	56	64	71	75	63	50	55	64	68	67	65	65	60	51	41	44	73	63	55	60	75	82	72	66.6
	Minimum	53	55	61	65	67	64	55	36	45	38	43	46	44	32	28	37	41	57	50	43	51	35	34	29	36	53	40	34	32	50	47	45.4
Lexington	Maximum	85	85	69	76	84	87	67	63	48	62	69	70	49	49	55	63	68	65	73	61	61	50	41	42	69	67	48	56	71	77	66	64.4
	Minimum	55	52	60	62	65	63	41	36	45	38	41	46	35	29	27	35	43	54	44	43	42	37	32	29	36	45	42	39	36	51	41	43.4
Louisville	Maximum	87	79	69	76	82	85	68	62	58	63	69	72	51	49	54	59	68	67	68	62	59	46	39	45	72	61	52	59	74	78	66	64.4
	Minimum	57	60	61	65	70	68	48	43	46	40	50	51	41	36	32	39	47	57	50	46	46	38	31	31	41	46	43	39	46	55	49	47.5
Do. Bowman Field	Maximum	89	84	70	77	82	85	64	61	52	64	68	73	46	49	55	60	69	67	69	62	59	44	38	44	72	64	52	58	75	77	66	64.4
	Minimum	65	57	61	65	70	64	51	37	50	37	44	49	45	32	29	37	45	57	62	45	51	38	32	30	38	55	45	37	39	53	46	47.2
Mammoth Cave	Maximum	68	66	67	88	84	85	76	54	52	51	56	68	60	42	46	53	58	61	61	54	59	59	49	42	66	69	55	49	64	82	73	61.7
	Minimum	48	51	61	63	67	62	54	32	39	36	46	41	43	29	28	34	40	45	46	40	48	34	32	26	32	52	38	33	32	52	45	42.8
St. John	Maximum	87	74	70	80	85	90	81	65	55	69	75	78	65	55	58	64	69	67	69	66	63	59	44	46	72	71	58	62	75	81	70	68.5
	Minimum	51	58	61	64	68	60	53	37	45	45	38	42	43	30	26	35	45	55	51	43	48	32	30	29	31	52	43	32	32	46	45	44.0
Shelbyville	Maximum	91	86	71	74	84	89	79	64	52	63	71	74	65	50	54	61	70	65	69	62	61	54	42	45	69	68	54	59	71	78	72	66.5
	Minimum	52	57	59	62	62	62	50	36	44	34	41	45	40	30	26	38	41	55	49	41	44	34	32	27	33	51	42	32	35	46	42	43.1
Smith's Grove	Maximum	84	76	70	85	86	88	70	65	55	65	72	72	53	53	56	66	69	68	71	67	58	49	38	47	74	68	53	62	75	84	74	66.9
	Minimum	52	57	64	66	70	63	60	40	47	42	41	43	53	34	31	36	43	58	60	48	55	38	36	28	37	54	40	32	34	50	50	47.0
Stearns	Maximum	77	74	69	77	79	84	68	60	50	59	69	70	59	52	53	63	66	66	70	60	60	46	35	42	71	64	45	55	69	81	81	63.7
	Minimum	52	58	62	61	66	61	62	38	40	39	36	43	52	36	28	33	44	54	60	40	44	38	34	25	38	52	42	38	33	46	49	45.3
Williamstown	Maximum	93	90	80	72	86	90	80	69	56	66	71	75	69	57	59	66	75	67	73	63	65	58	48	50	69	70	59	61	75	81	69	69.7
	Minimum	54	55	50	60	67	64	50	36	44	37	44	49	41	31	29	34	33	53	49	48	44	40	35	29	37	26	43	37	37	52	40	43.8
Eastern Division.																																	
Ashland	Maximum	82	84	75	77	90	90	78	62	58	65	68	73	66	62	55	57	74	69	83	66	62	56	51	49	71	72	56	58	72	78	69	68.8
	Minimum	49	46	62	61	65	65	57	36	38	44	42	45	44	36	25	31	38	58	45	47	45	41	38	34	34	55	46	44	32	44	38	44.4
Berea	Maximum	80	82	70	80	83	86	81	61	58	65	70	71	62	51	54	63	70	..	66	74	60	51	44	43	69	66	58	54	61	70	75	*65.9
	Minimum	57	51	61	63	65	65	52	35	40	42	42	47	44	30	23	35	40	..	55	60	48	40	34	43	44	43	39	44	45	49	40	*45.0
Cumberland	Maximum	80	84	78	77	80	81	70	65	58	68	69	69	61	61	64	67	63	63	65	69	70	70	63	63	65	69	58	58	70	70	70	66.9
	Minimum	41	52	58	59	65	61	58	35	35	40	37	37	46	29	25	29	34	36	50	38	40	35	42	50	32	44	42	40	31	35	50	42.5
Farmers	Maximum	87	83	82	77	89	89	85	65	61	64	71	78	71	54	55	63	73	69	80	61	61	55	46	45	69	67	61	58	73	80	70	69.0
	Minimum	43	48	58	58	63	55	51	30	34	34	37	42	21	17	25	29	52	55	48	34	38	34	29	30	45	42	39	28	40	29	39	39.3
Heidelberg	Maximum	81	81	69	76	85	86	72	63	60	71	72	69	62	55	62	72	68	80	62	62	52	44	43	70	69	61	56	68	81	76	76	66.8
	Minimum	46	49	61	63	65	60	62	37	38	42	36	40	47	34	24	28	31	55	50	38	42	32	32	32	38	49	45	44	31	38	38	43.4
Maysville	Maximum	85	85	75	74	84	90	81	68	56	66	70	73	67	51	55	64	72	67	76	62	63	55	49	46	62	70	58	56	72	77	61	67.1
	Minimum	49	48	62	61	63	60	54	35	40	39	41	48	43	32	25	33	36	55	55	44	45	41	36	32	38	54	45	42	32	44	34	43.7
Middlesboro	Maximum	76	74	72	75	78	80	79	71	65	..	66	69	67	62	58	61	64	64	71	66	62	58	..	68	64	63	59	55	61	75	75	*67.0
	Minimum	46	54	64	61	64	61	60	37	38	..	40	42	56	42	27	31	39	59	59	36	35	40	..	30	37	54	41	42	31	34	42	*44.9
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	79	80	75	77	81	86	70	63	56	56	65	72	52	54	58	59	72	70	80	62	62	46	45	42	74	68	48	55	62	78	68	64.8
	Minimum	47	52	63	61	62	63	62	38	38	46	42	45	48	41	28	31	34	58	58	40	40	45	38	35	32	44	46	41	34	59	41	44.9
Pippapass	Maximum	89	85	85	88	86	90	78	66	52	69	73	70	74	61	60	69	60	58	81	84	84	63	57	45	50	60	79	59	62	74	86	75	70.6
	Minimum	42	45	50	59	60	59	59	35	37	38	39	41	47	38	25	28	30	40	56	39	38	40	36	31	40	42	39	41	33	45	38	41.3
Quicksand	Maximum	86	86	71	78	84	86	74	66	55	63	70	71	53	55	59	65	64	70	81	62	58	53	48	44	70	66	64	68	..	57	69	*66.8
	Minimum	56	45	59	60	62	57	50	34	34	41	39	39	45	30	24	26	29	55	48	37	36	40	37	30	32	44	40	30	..	36	34	41.0
Richmond	Maximum	88	80	84	70	78	86	87	77	66	50	62	70	70	58	50	60	65	70	65	73	62	60	52	45	45	68	66	52	56	72	78	66.6
	Minimum	58	55	68	64	66	66	55	50	45	43	44	50	58	32	28	35	43	56	63	43	45	40	38	30	40	54	44	40	40	54	43	47.9
Williamsburg	Maximum	84	77	71	80	86	89	80	72	52	64	73	77	62	50	59	69	68	67	77	68	65	55	44	48	74	68	53	57	72	83	89	68.8
	Minimum	49	61	65	62	68	62	49	38	40	40	40	43	44	37	28	31	31	55	48	42	41	40	32	29	33	52	40	42	32	39	41	43.5
Winchester	Maximum	84	86	67	76	82	85	66	64	48	59	68	69	46	62	53	62	66	65	72	60	59	49	40	42	68	66	46	54	70	76	65	63.7
	Minimum	52	52	60	61	65	65	50	38	43	41	40	46	43	31	25	33	40	54	60	41	46	40	36	30	38	54	42	40	36	52	41	45.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 11-25-37-1100

IKE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

THE LIBRARY OF THE JAN 8 1938

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., NOVEMBER, 1937 No. 11

GENERAL SUMMARY.

Although relatively warm in short periods, temperatures lower than normal prevailed. Fall grains and pastures continued to improve slowly until the middle of the month. Low temperatures in the first week checked but did not stop their growth. Severe cold in the third week brought about almost complete cessation of growth, after which the brief interval of moderate temperature toward the end caused only slight progress. Fall grains at this time were rather small but well rooted, with stands and condition generally excellent. The dryness of the soil at the time of low temperature prevented the deep freezes from having any appreciable lifting effect. After the onset of the cold weather pastures deteriorated until they were soon of little use, and feeding of livestock up to winter requirements became necessary somewhat earlier than usual.

The rainfall was generally light to moderate and of short duration until the last week. The condition of the soil with respect to its moisture content was exceptionally favorable for plowing, which progressed quite rapidly. The rains toward the end stopped this work in some central and western counties, but were not heavy enough to interfere greatly in the eastern districts. Prior to this rainy spell atmospheric moisture was scarcely sufficient to dampen tobacco for stripping, therefore no more than a slight beginning had been made with this work until that time. The long dry period permitted the gathering of corn to be completed on most farms. It was also a favorable time for other outdoor work about the farm. The extended cold spell decreased milk and egg production.

By the middle of the month shortage of stock water had developed in some parts of the hilly northeastern district, where the rainfall had been deficient during the two preceding months. This was relieved in most places by the rains of the last week.

TEMPERATURE.

Temperatures above normal, with slight to moderate daily excesses, prevailed in the periods 1st-2d, 7-13th, and 25-27th. In the decade 15-24th they ranged from 8° to 25° below the seasonal average. In the coldest period, 17th to 23d, the daily deficiency was 14° to 26°, while the minima recorded at most stations ranged from 8° to 16°. Extremes for the State were 82° on the 1st at Princeton and 6° on the 23d at Farmers.

PRECIPITATION.

Precipitation averaged about half of the normal amount. It occurred rather frequently and in the form of light to moderate showers. Moderate rains were fairly general on the 8th and 9th. Showers from the 16th to 29th were light in the eastern counties and moderate to heavy in central and western districts. Light showers also occurred in the periods 5-6th. and 16th-21st. Monthly amounts in the south-central counties ranged between 2.0 and 4.0 inches. A few counties from the middle Green River southward received almost the normal rainfall. In northern and eastern districts precipitation ranged from 1.0 to 2.0 inches. A few eastern stations reported less than 1.0 inch. Snow in small amounts occurred frequently in the period 17th-21st, with the total fall ranging from a trace to 3.0 inches. Thunderstorms were reported by a few stations on the 2d and 28th.

MISCELLANEOUS.

Nov. 28.---A windstorm that destroyed tobacco barns, unroofed dwellings, and damaged wire systems visited ten counties of the bluegrass region, viz., Bath, Bourbon, Clark, Fleming, Harrison, Mason, Montgomery, Nicholas, Pendleton, and Scott. The damage was estimated at $50,000. One person in Fleming County was injured by flying debris.

Rivers.—A moderate swell passed down from the upper Ohio during the first week, otherwise pool stages prevailed. Other streams were generally low.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.16	30.71	22	29.61	28	9.0	25	n.	28	77	55	59	55
Cincinnati .....Ohio	30.14	30.74	23	29.45	28	8.0	29	sw.	28	80	60	63	45
Evansville..... Ind.	30.16	30.76	23	29.60	28	8.9	33	sw.	28	73	56	58	65
Louisville .....Ky.	30.13	30.76	23	29.49	28	10.2	29	w.	28	75	59	68	40

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation. Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889.....	43.1	85	10	6.04	....	..	..	..	..
1890.....	48.6	81	19	4.87	....	..	..	..	..
1891.....	43.5	75	10	6.04	....	..	..	..	..
1892.....	42.8	78	9	3.85	....	..	..	..	..
1893.....	44.3	79	— 2	3.12	....	..	..	..	..
1894.....	43.3	80	8	1.02	....	4	..	..	..
1895.....	45.8	85	16	4.29	....	7	10	7	13
1896.....	49.3	80	11	5.01	..	8	10	8	12
1897.....	47.8	78	12	4.69	T.	10	13	7	10
1898.....	43.2	80	10	2.79	0.5	8	12	7	11
1899.....	49.8	79	20	2.12	T	8	11	7	12
1900.....	47.0	83	15	7.78	1.0	8	15	6	9
1901.....	41.8	82	11	1.52	T.	4	19	5	6
1902.....	53.4	90	20	4.42	0.3	11	11	6	13
1903.....	42.5	81	5	3.01	2.0	8	12	7	11
1904.....	44.7	79	14	0.89	T.	3	15	6	9
1905.....	46.4	79	14	3.55	T.	7	15	6	9
1906.....	46.1	93	11	5.02	2.3	7	13	6	11
1907.....	44.2	75	15	3.49	0.1	7	14	5	11
1908.....	48.6	80	8	2.61	0.2	7	14	7	9
1909.....	54.7	86	19	2.29	T.	6	15	6	9
1910.....	41.1	78	11	2.04	T.	6	16	5	9
1911.....	41.6	85	9	4.51	0.8	8	10	4	16
1912.....	45.2	82	10	1.22	0.2	4	16	5	9
1913.....	50.5	81	8	3.25	0.9	9	12	5	13
1914.....	46.9	83	5	1.23	0.4	5	18	5	7
1915.....	49.8	85	16	4.80	0.4	9	15	7	8
1916.....	47.8	83	8	1.52	T.	4	20	4	6
1917.....	44.3	78	11	1.23	0.1	5	14	5	11
1918.....	46.1	77	19	1.90	0.0	6	14	5	11
1919.....	47.4	78	16	7.31	0.0	9	15	5	10
1920.....	44.7	79	10	2.21	2.8	8	12	5	13
1921.....	49.8	79	20	7.96	T.	12	11	5	14
1922.....	48.3	87	10	1.93	0.4	6	16	6	8
1923.....	46.4	75	16	3.65	0.0	9	14	5	11
1924.....	47.7	83	13	1.82	0.1	9	11	7	12
1925.....	44.9	73	8	5.13	0.1	7	12	6	12
1926.....	42.9	80	0	3.40	2.0	9	10	7	13
1927.....	51.3	82	13	5.01	0.1	10	9	7	14
1928.....	46.8	78	10	3.93	T.	10	10	6	14
1929.....	44.6	81	— 9	4.03	3.0	11	8	6	16
1930.....	47.1	86	— 4	1.82	1.0	10	12	6	12
1931.....	55.0	84	19	3.52	T.	10	13	5	12
1932.....	43 8	78	11	2.71	0.4	9	14	5	11
1933.....	45.5	85	10	1.54	T	5	6	11	13
1934.....	50.5	84	14	2.85	T.	7	15	6	9
1935.....	47.3	85	11	3.86	T.	11	7	6	17
1936.....	42.9	81	10	3.50	3.4	5	14	8	8
1937.....	43.2	82	6	1.63	0.6	9	12	6	12
Period	46.4	93	— 9	3.48	0.6	5	14	8	8

†49 year averages.

Climatological Data for November, 1937.

Stations	Counties	Elevation, feet	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall	....	....	....	....	....	....	....	....	....	1.76	.....	0.98	.....	4	.....	.....	.....	.....	Tennessee Valley Authority.
Earlington	Hopkins	437	33	44.8	−3.2	81	1	12	22	40	1.85	−1.77	0.65	T.	10	14	2	14	n.	W. A. Taylor.
Fords Ferry, Dam 50	Crittenden	356	8	....	....	....	....	....	....	....	1.92	.....	0.98	0.4	11	.....	.....	.....	.....	Brick Southworth.
Greenville	Muhlenburg	519	20	43.3	−4.6	80	1	8	22	37	2.18	−1.41	0.75	0.2	9	13	10	7	n.	Lockmaster.
Henderson	Henderson	382	28	43 6	.....	81	1	12	22	39	1.53	−2.26	0.55	.....	19	8	11	11	w.	C. K. Lovell.
Hopkinsville	Christian	524	41	45.2	−3.3	80	1	14	21	39	2.47	−1.55	0.70	0.5	8	19	3	8	n.	Frank Street.
Lovelaceville	Ballard	....	8	[a]43.9	−3.6	[a]80	1	12	21†	38	1.86	−1.50	0.85	1.0	5	15	5	10	s	W. K. Morris.
Mayfield	Calloway	364	28	45.4	−3.7	81	1†	12	21†	37	1.88	−2.00	0.47	T.	10	14	7	9	n.	Blaine Malone.
Murray	Graves	412	11	43.7	−4.4	75	1	12	22	30	1.66	−1.74	0.45	1.4	11	13	5	12	s.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	43 6	−3.4	79	1	14	22†	44	1 06	−2.26	0.41	T.	7	12	4	14	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4	....	....	....	....	....	....	....	1.63	−1.18	0.54	T.	12	.....	.....	.....	.....	Lockmaster.
Paducah [**]	McCracken	516	20	44.6	−4.5	81	1	13	21†	38	1.88	−1.95	0.70	T.	13	17	4	9	.....	Joe Lagore.
Princeton	Caldwell	529	30	44.4	−2.9	82	1	14	21	38	2.19	−1.10	0.79	T.	12	12	5	13	sw.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	20	....	....	....	....	....	....	....	1.75	−1.77	0.52	T.	11	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	580	26	42.2	−4.8	77	1	14	21†	34	2.38	−0.90	0.82	.....	10	14	4	12	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9	....	....	....	....	....	....	....	1.19	−1.57	0.38	1.3	13	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9	....	....	....	....	....	....	....	1.44	−1.36	0.67	T.	11	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	36	42.0	−2.8	76	1	10	22	39	1.92	−1.82	1.00	T.	5	13	1	16	nw.	C. E. Barret.
Bowling Green	Warren	500	48	45.6	−2.3	75	1	17	21	34	3.42	−0.22	1.42	2.8	10	9	9	12	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	20	....	....	....	....	....	....	....	3.27	−0.59	1.32	.....	13	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	46	....	....	....	....	....	....	....	1.75	−1.71	0.38	0.2	12	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	38	....	....	....	....	....	....	....	1 30	−1.63	0.68	.....	4	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 86	Campbell	489	11	....	....	....	....	....	....	....	1.48	−1.76	0.49	0.5	12	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	940	4	41.8	.....	78	1	11	22†	44	1.71	−1.74	0.66	0.8	7	12	16	2	w.	R. P. Caldron.
Dix Dam, Burgin	Mercer	770	9	44.4	−3.2	78	1	16	22	36	1.22	−1.91	0.68	0.0	8	10	7	13	.....	C. W. Williams.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	1.26	.....	0.33	T.	9	.....	.....	.....	.....	Lockmaster.
Eubank	Pulaski	1177	43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Mrs. Katie Payne.
Frankfort	Franklin	560	45	42.7	−3.9	76	1	12	22	43	1.73	−1.26	0.38	0.5	12	9	4	17	w.	Lockmaster.
Gest, Lock 3	Henry	490	26	....	....	....	....	....	....	....	2.00	−1.24	0.60	1.0	10	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	780	11	....	....	....	....	11	22	....	3.77	−0.48	0.99	.....	6	21	0	9	e.	R. L. Beatty.
Grant, Dam 38	Boone	780	12	....	....	....	....	....	....	....	1.49	−1.28	0.43	.....	9	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	44	42.3	−3.4	77	1	9	22	41	1.90	−1.65	0.71	T.	11	5	3	22	w.	Mrs. Bettie K. H. Alcorn
High Bridge, Lock 7	Jessamine	544	35	....	....	....	....	....	....	....	1.50	−1.68	0.55	1.0	10	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	39	43 2	−3.8	76	1	16	22	33	1.22	−2.08	0.58	T.	7	13	5	12	nw.	W. J. Figgot.
Lancaster	Garrard	1032	11	....	....	....	....	....	....	....	0.95	−2.27	0.48	.....	9	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	41	43.4	−3.4	77	1	13	21	36	1.90	−2.04	0.50	0.5	10	10	9	11	nw.	H. H. Willis.
Lexington	Fayette	989	53	41.4	−3.4	76	1	13	22	33	1.74	−1.60	0.32	2.9	10	.....	.....	.....	.....	U. S. Weather Bureau
LittleHickman, Lock 8¶	Jessamine	560	26	....	....	....	....	....	....	....	1.32	−1.82	0.58	.....	5	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	27	....	....	....	....	....	....	....	2.14	−0.66	1.14	0.2	7	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	64	43.3	−3.4	76	1	16	20	30	1.66	−1.45	0.85	T.	9	9	11	10	nw.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	....	43.3	.....	77	1	16	22	36	1.49	.....	0.56	T.	10	.....	.....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	..	40.8	.....	69	1	7	22	48	2.51	.....	0.83	0.6	9	15	4	11	ne.	Ivan J. Ellsworth.
Munfordville	Hart	600	14	....	....	....	....	....	....	....	2.65	−0.49	0.95	.....	6	.....	.....	.....	.....	Mrs. M. W. Price.
St. Joun	Hardin	777	41	41.0	−4.8	77	1	11	20	39	1.30	−2.25	0.30	0.2	7	19	5	6	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	23	....	....	....	....	....	....	....	1.40	−1.90	0.51	.....	6	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	48	42.2	−2.6	77	1	12	22	35	1.53	−1.72	0.51	1.0	12	13	0	17	nw.	Miss Ruth Ratta,
Shepherdsville	Bullitt	500	....	....	....	....	....	....	....	....	1.22	.....	0.72	T.	5	11	5	14	w.	A. McLeod.
Smith's Grove	Warren	607	....	44.1	.....	78	1	15	22	38	3 05	.....	1.02	.....	11	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	35	42.2	.....	74	1	10	21	35	1.71	.....	0.66	.....	13	.....	.....	.....	.....	Geo Wright
Tyrone, Lock 5¶	Anderson	524	19	....	....	....	....	....	....	....	1.69	−1.20	0.50	0.4	11	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	843	34	43.8	−1.4	78	1	14	22	40	2.26	−0.66	0.75	0.5	9	12	6	12	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	20	....	....	....	....	....	....	....	2.50	−0.94	0.98	.....	11	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	6	....	....	....	....	....	....	....	1.53	.....	0.40	1.2	13	11	4	15	sw.	W. A. Worthington.
Ashland	Boyd	534	18	46.0	−4.1	75	1	14	23	38	1.33	−1.57	0.42	0.5	11	8	5	17	w.	Lockmaster.
Berea	Madison	1070	32	43.0	−4.5	75	1	10	22	40	1.70	−1.64	0.50	1.3	11	12	1	16	sw.	Luther M. Ambrose.
Burkesville	Cumberland	590	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	C. D. Norris.
College Hill, Lock 11	Madison	611	27	....	....	....	....	....	....	....	1.25	−1.65	0.51	0.5	11	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	....	42.7	.....	78	1	9	22	45	2.24	.....	1 02	.....	9	14	13	3	nw.	C. Bertrand Fields,
Cynthiana	Harrison	684	19	....	....	....	....	....	....	....	0 75	−2.28	0.30	0.6	5	.....	.....	.....	.....	P. H. Kehoe.
Falmouth	Pendleton	660	48	....	....	....	....	....	....	....	1.43	−1.52	0.45	0.5	11	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	29	[a]41.6	−3.9	80	1	[b]*	23	49[a]	1.17	−1.82	0.20	.....	9	11	3	16	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12	....	....	....	....	....	....	....	1.52	−1.86	0.36	.....	10	.....	.....	.....	.....	C. A. Glascock.
Ford, Lock 10¶	Clark	637	21	....	....	....	....	....	....	....	1.53	−1.33	0.72	0.2	11	.....	.....	.....	.....	Lockmaster.
Greenup, Dam 30	Greenup	1197	9	....	....	....	....	....	....	....	0.74	−2.28	0.37	0.5	7	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	13	....	....	....	....	....	....	....	1.18	−1.87	0.42	.....	8	.....	.....	.....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	20	42 2	.....	78	1	10	22	45	0.98	−1.93	0.23	T.	9	8	3	19	w.	Lockmaster.
Jackson	Breathitt	840	17	....	....	....	....	....	....	....	1.19	.....	0.75	T.	3	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher.	776	....	....	....	....	....	....	....	....	0.85	−2.87	0.27	1.0	6	.....	.....	.....	.....	R. J. Howard,
Louisa	Lawrence	584	33	....	....	....	....	....	....	....	0.87	−1.83	0.20	.....	7	.....	.....	.....	.....	B. H. Griffin.
Maysville	Mason	524	17	42 5	−2.7	75	1	14	23	42	1.46	−1.58	0.44	1.3	12	6	11	13	sw.	Lockmaster.
Middlesboro	Bell	1128	40	44.2	−2.1	71	1	10	22	39	1.74	−1.78	0.61	.....	8	13	7	10	.....	Matthew Woodson
Mount Sterling	Montgomery	930	41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	W. R. McKee.
Oneida	Clay	....	47	....	....	....	....	....	....	....	1.45	.....	0.55	.....	6	.....	.....	.....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	10	....	....	....	....	....	....	....	1.14	−1.77	0.49	1.0	10	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	667	3	....	....	....	....	....	....	....	1.00	.....	0.24	0.5	11	.....	.....	.....	.....	Manuel Robinson.
Pikeville	Pike	636	31	43.5	.....	76	1	14	23	40	0.82	−2.14	0.20	.....	11	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	3	45.4	....	76	1	12	23†	39	1.12	.....	0.27	0.5	10	4	6	20	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	11	40.5	−6.5	81	1	10	22	47	1.92	−1.95	0.45	T.	7	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estil	631	19	....	....	....	....	....	....	....	1.10	−1.62	0.33	.....	7	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	46	44 2	−3.0	73	1	15	22	28	1.65	−1.64	0.60	.....	9	10	14	6	.....	L. W. Crooke.
Valley View, Lock 9	Madison	571	24	....	....	....	....	....	....	....	1.54	−1.92	0.79	0 2	8	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	1.21	−1.67	0.30	0 5	11	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	38	43.2	−3.9	79	1	10	22	46	1.27	−2 08	0.47	0.3	9	17	4	9	....	Wadely West,
Willow Lock 13	Lee	646	20	....	....	....	....	....	....	....	1.06	−2.32	0.30	0.3	7	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	961	....	42 5	.....	74	1	15	22	30	1.22	.....	0.44	.....	9	.....	.....	.....	.....	Airway Station.
State averages and extremes		....	....	43 2	−3.2	82	1	6	23	49	1.63	−1.80	1.32	0.6	9	12	6	12	w.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, [a], [b], *, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow §Lone Oak.
¶ Post-office addresses: — Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.
** Precipitation by U. S. Engineers.

Daily Precipitation for November, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	26	26	27	28	29	30	31	
Western Division																																
Birmingham T.		.28			.15			.18	.98	.22	.25					.06	.40	.02	.02						.02		.38					1.76
Earlington G.		T	.05		.10	T.	T.	.01	.22	.98	.14	T.					T		.07	.02	.02					.09	.02	.42	T.			1.85
Fords Ferry Dam 50‖ O.		.10			.06			.35	.40	.28						.05			.06	.09							.76				1.92
Greenville G.		.09			.11		T.	.66	.05	.07		.09							.10							.05	.08	.34				2.13
Henderson O.					.05			.62	.26	.70						.14			T.							.16	.03	.51				1.53
Hopkinsville O.								.85		.31						.10											.10	.50				2.47
Lovelaceville M.		.02			.09			.47	.39	.26						.15									T.	.02	.24	.13				1.86
Mayfield M.					.08			.45	.23	.29						.07			.01	.01					.18	.08	.16	.11				1.88
Murray T.					.08		.05	.35	.08	.04						T.		T	T						T.	T.	T.	.41				1.66
Owensboro O.		.05			.08			T	.54		.03								.07	T.						.02	.08	.33	.39			1.06
Owensboro, Dam 46 ‖ O.		.02	.08		.06	.02	.04									.06	.10		.13	T.	T.					.04	.04	.70	.01			1.63
Paducah O.		.06	T.		.18			.01	.32	.09	.14								.18	.01					.02	.08	.16	.35				1.88
Princeton G.		.20			.12			.79		.25	.01					.08			.18	.01							.67	.48				2.19
Rumsey, Lock No. 2 ‖ G.			.05		.14				.52		.82						.02		.10	.02	T.					.13	.01	.27				1.75
Russellville‖ G.					.03			.82	.30	.22	.02					.15			.11							.04	.02	.48	.04			2.38
Uniontown, Dam 49‖ O.		.10	.08		.10		.02	.02	.24		.06					T.			.11	.02	.01					.03	.02	.38				1.19
Central Division																																
Addison, Dam 45. ‖ O.		.03	T.		.05	.02	T.		.67							T.			.08	.02	.01					.02	.02	.21	.31			1.44
Anchorage O.		T.						.72	.06							.03			T							.11		1.00				1.92
Bowling Green G.						T.			.90	.15	.35	.05					1.12		.08		.10					.10	.02		.55			3.42
Brownsville, Lock No. 6‖ G.					.05	.07		1.32	.03	.86	.08								.10	.01	.01					.05	.03	1.11				3.27
Burnsideǂ C.			.04		.07	.06			.08		.13	.11					.16		.24	.06	T.					.18	.24		.88			1.75
Carrollton ‖ (Lock No. 1) K.		.20			.12			.79		.25	.01					.08			.18	.01					.02	.08	.16	.35				2.19
Cold Spring, Dam 36‖ O.		T.	.03		.02	.03			.32			.01		.01	T.				.08	.07	T.					.03	.07	.32	.49			1.48
Danville K.					.05				.56								.08		.13	.03	T.					T.	.16	T	.26			1.27
Dix Dam, Burgin ‖‖ K.				.09	.01			.68									.11		.02							.13	.01	.27				1.22
Eadsville ‖ C.						.06			.33		.14					.10			.13	T.	T.					.10	.20	.07	.13			1.26
Eubank C.							.14													.18							.16	.29				0.76
Frankfort‖ K.		.05			.10	.06			.35							.04			.16	.01	.01					.05	.29	.25	.38			1.73
Gest, Lock No. 3 ‖ K.		.06	T.		.13	.03			.45										.03	.04						.20	.10	.36	.60			2.00
Glasgow G.							.85		.95		.45					.05										.48		.99				3.77
Grant, Dam 33‖ K.		.05	T.		.04	T.			.36					T.	T.				.12	.05						.06	.03	.43	.35			1.49
Greensburg O.					.03	.08			.71		.12	.03					.09			.03						.12	.06	.61	.02			1.90
High Bridge, Lock No. 7‖ K.					.11	.03			.55								.14		.10	.08	T.					.01	.13	.04	.31			1.50
Irvington O.		.06			.14			.27	.06	T.	T.					T.			T.	.06					T.	.05		.58				1.22
Lancaster‖ K.				.04	.04			.48								.12		.09	.03						.04	.11	.04				0.99
Leitchfield G.		.07			.11			.35	.85	.22						.07			T.	.02						.17	.04	.50				1.90
Lexington *** K.		T.			.18			.61	.02			T.			T.	.07			.20	.09					.01	.15	.19	.32				1.74
Little Hickman, Lock No. 8 ‖ K.						T.			.58								.06		.03	T.	T.					T	.25	.38	T.			1.32
Lockport, Lock No. 2 ‖ K.					.16	.05			.62								.04		.02							.14	.07	1.14				2.14
LOUISVILLE*** O.		.04			.12			.50								.01		.02	.07	T.						.03	.02	.85				1.66
Do. Bowman Field O.		.02			.12				.37								.01		.04	.02	T					.04	.04	.27	.56			1.49
Mammoth Cave G.		T.			.10			.36	.88	.33	.08	T.				.08			.16	T.							.02	.56				2.51
Munfordville G.					.16				.98		.82								.24		.12	T.			T.		T.	.84				2.66
St. John S					.25		.05	.80	.20	.30						T.			T.	.10							T.	.10				1.30
Salvisa, Lock No 6 ‖ K.					.11	T			.51								T.		T	.16						.10	.20	.32	T.			1.40
Shelbyville S.		.10			.11	.02		.16	.38			.02		.01		T.	T.		.15	.02						.08	.02	.51				1.53
Shepherdsville S.		T.			.09			.26								.03			T							.12	T.	.72				1.22
Smith's Grove G.					.10			.20	1.02	.36	.40					.10			.17	.01	.01					.06		.52				3.05
Stearns C.		.04		.02	.06			.26	.03	.66						.21		.02	.15	.02	T.				.06	.10		.08				1.71
Tyrone, Lock No. 5‖ K.			T.		.10	.12			.33								.05		.15	.05	.02					.05	.20	.12	.60			1.69
Williamstown L.		.02			.10			.40	.10							.06			.30							.10	.18	.75				2.26
Woodbury, Lock No. 4‖ G.					.03	.02			.98	.02	.28	.08					.04		.06							.10	.02	.87				2.50
Eastern Division																																
Annville C.			.04		T.	.08			.40		.05	.06	.03			.10			.11	.09	.03					.10	.34		.10			1.53
Ashland ‖ O.	.01				.01	.04			.15				.42			.10			.03	.12							.06	.05	.34				1.33
Berea K.					.16			.08	.30	.05						.03	.04		.11	.50						.11	.05	.27				1.70
Burkesville																																
College Hill, Lock No. 11‖ K.				.04		.05			.51				.03			.10			.12	.03						.03	.12	.02	.20			1.25
Cumberland C.		.15			T				.15	.20						.49	.01		.14	1.02	.06					.02						2.24
Cynthiana ‖ L.			.10						.30				T.												.10	.15		.10				0.75
Falmouth‖ L.		.02			.09	.02			.45				T.		T.	T.	.03		.10	.04	T.					.09	.17	.06	.36			1.43
Farmers ‖ K.					.05	.10			.20				.17				.11		.18							.03	.16	.17				1.17
Flemingsburg‖ L.					.13	.11			.27				.11				.08		.06	.09							.27	.04	.36				1.52
Ford, Lock No. 10 ‖ K.		T.			.09	.04			.72				.02			T.	.10	T.	.10	.04	.01					.03	.17	T.	.24				1.53
Greenup, Dam 30‖ O.					T.	.07			.08				.37		T.				T	.06						T.	.05	.05	.06				0.74
Hazard ǂ K.			.10			.22	.05									.42	.05			.10	.02						.22						1.18
Heidelberg, Lock No. 14‖ K.					T.	.16			.23		T.	T.	T.				.17		.08	.05	.02	T.				T.	.10	.02	.15				0.98
Jackson K.					T.				.29								T.		T.	T.	T.	T.				T.	.15	T.	.75				1.19
Jenkins‖ B.					.10				.27								.24	.02	.13	.07	.15												0.85
Louisa‖ B.						.09			.15				.20						.18	.10							.05		.10				0.87
Maysville‖ O.			.05		.08	.08			.44			T.	.09			.10			.04	.10	.02					.05	.16		.27				1.46
Middlesboro C.					.15				.23	.12	.61					.02										.20	.25	.16				1.74
Mount Sterling																																
Oneida C.					.14	.12			.55			.25							.30								.09						1.45
Oneonta Dam 35 ‖ O.			T.		.05	.04			.23				.01	T.	T.		T.		.04	.03	T.					.03	.14	.08	.49				1.74
Paintsville ‖ B.			.06			.09			.10			.02	.11		T.		.12		.06	.11						.02	.24		.08				1.00
Pikeville‖ B.		.08	T.		.06	.01			.18			.01	T.			.05	.10		.05	T.	T.					.20	.02	.06				0.82
Pippapass K.			.07			.15			.27			.04					.02				.05	.05		.08		.25	.02	.12				1.12
Quicksand‖ K.			.45			.24			.31			.05	T.						T.							.36	.17		.34			1.92
Ravenna, Lock No. 12‖ K.				T.	.83				.18			T.	T.				.14		.08	.07	T.	T.				T.	.08	T.	.22				1.10
Richmond K.					.05	.05			.60					.05			.16		.16							.10	.30	.20				1.65
Valley View, Lock No. 9‖ K.					.07	.04			.79				T.				.09		.03							.08	.20		.24				1.54
Vanceburg, Dam No. 32 ‖ O.			.05		.08	.10			.30				.12				.10			.10	.03						.08	.06	.19				1.21
Williamsburg‖ C.					.08	.08			.13		.47						.11		.08	T.	.01	T.					.29		.12				1.27
Willow, Lock No. 13‖ K.						.26			.30				.08				.12			.03							.15		.12				1.06
Winchester K.					.01	.07			.44				.02			T.	.16		.07	.08	.02					.03	.10	.03	.19				1.22

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

ǂ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi. ¶Lone Oak.

Daily Temperatures for November, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.	Maximum	81	75	55	59	53	65	74	68	67	60	58	69	68	62	48	42	39	47	43	25	33	36	43	56	57	56	60	58	55	51	..	55.4
Earlington	Minimum	80	48	30	21	42	30	47	58	42	45	49	43	41	45	31	33	30	24	29	19	14	12	13	16	23	50	52	31	24	25	..	34.1
	Maximum	80	72	54	59	58	64	72	65	67	59	57	70	70	60	46	42	40	46	40	24	35	38	43	57	57	55	59	58	55	47	..	54.9
Greenville	Minimum	46	47	30	18	41	27	47	54	46	45	47	42	37	39	26	31	27	21	23	16	9	8	10	16	31	47	59	29	21	21	..	31.7
	Maximum	81	66	50	57	54	65	71	63	69	56	57	71	67	55	43	40	41	46	42	32	34	37	48	56	57	52	58	58	55	42	..	54.1
Henderson	Minimum	47	48	29	19	42	32	48	56	39	42	47	39	41	42	33	33	26	23	25	23	13	12	13	17	35	48	49	28	21	20	..	33.0
	Maximum	80	63	50	60	54	65	74	65	61	60	60	71	72	60	51	42	40	46	46	20	36	39	47	58	59	55	59	60	56	45	..	55.4
Hopkinsville	Minimum	52	55	32	21	42	28	38	54	52	50	49	43	45	44	29	31	29	25	24	17	14	16	17	21	34	47	51	33	36	25	..	35.1
	Maximum	80	75	59	56	60	63	71	68	65	58	55	69	66	61	47	46	44	44	41	25	33	35	40	48	52	53	57	57	54	..	..	854.5
Lovelaceville	Minimum	50	47	31	17	40	26	48	55	47	42	50	42	42	43	25	32	28	23	24	21	12	12	12	17	30	46	49	29	25	..	..	833.3
	Maximum	81	68	59	59	61	63	72	62	62	60	56	72	60	60	54	42	43	46	42	27	36	37	43	51	56	53	58	57	57	49	..	55.3
Mayfield	Minimum	53	48	34	22	42	31	48	55	47	50	49	44	49	43	31	30	28	26	28	20	12	17	17	24	37	47	50	30	29	25	..	35.4
	Maximum	75	70	53	55	58	64	71	61	63	59	57	60	56	57	49	40	38	41	41	28	32	29	37	41	51	58	57	55	42	43	..	51.4
Murray	Minimum	55	49	35	25	43	34	43	56	53	52	50	45	45	45	32	32	29	27	23	20	14	12	19	21	38	48	49	31	30	26	..	36.0
	Maximum	79	77	74	54	54	62	70	68	66	62	57	67	67	60	43	41	38	44	41	24	32	35	43	54	54	56	59	59	53	43	..	54.5
Owensboro	Minimum	49	43	30	21	44	29	45	46	36	41	46	42	45	38	36	30	28	23	35	16	15	14	14	19	31	44	42	30	23	25	..	32.7
	Maximum	81	75	58	58	62	66	73	65	65	56	56	70	70	60	45	44	42	44	30	30	37	38	44	54	54	58	59	59	57	45	..	55.2
Paducah	Minimum	52	48	32	20	42	29	50	56	41	49	49	43	46	42	30	32	30	25	20	20	13	13	14	19	30	48	50	30	27	24	..	34.1
	Maximum	82	73	52	59	53	67	72	63	66	54	59	68	68	55	46	42	41	47	36	25	36	38	45	56	57	54	58	57	56	46	..	54.4
Princeton	Minimum	48	48	31	21	43	29	44	57	46	48	50	48	42	42	29	32	29	25	23	13	14	15	17	18	31	48	51	31	26	25	..	34.3
	Maximum	77	61	49	57	51	63	72	62	63	54	54	68	68	53	36	39	43	38	28	33	36	41	55	56	52	58	61	54	40	..	..	51.4
Russellville§§	Minimum	48	56	33	20	23	29	38	49	51	45	48	46	43	41	31	32	29	23	28	17	14	14	15	17	22	42	48	39	25	25	..	33.1
Central Division.	Maximum	76	67	57	56	46	67	72	62	67	62	63	66	66	54	42	39	38	38	38	30	37	40	45	46	57	52	59	57	51	42	..	53.1
Anchorage	Minimum	45	39	25	20	33	28	45	54	34	38	44	45	38	38	37	34	22	28	22	17	20	10	13	16	26	46	50	26	19	17	..	31.0
	Maximum	75	65	50	56	50	70	72	64	65	58	58	68	70	60	50	43	39	41	40	28	40	36	42	55	57	55	60	57	53	45	..	54.2
Bowling Green	Minimum	50	50	35	28	43	45	55	52	52	48	46	58	45	43	33	33	30	25	31	19	18	18	18	21	30	45	52	38	25	28	..	37.1
	Maximum	78	68	60	56	49	60	70	64	64	60	55	61	68	59	42	40	33	42	40	26	31	36	40	58	56	55	58	59	51	42	..	52.7
Danville	Minimum	40	47	29	20	34	35	38	48	45	35	45	43	35	36	37	31	26	21	24	17	12	11	11	14	22	43	49	31	20	32	..	31.0
	Maximum	78	73	53	56	50	62	70	64	66	52	60	61	68	50	43	42	34	42	43	27	34	37	38	59	56	55	60	59	52	59	..	54.1
Dix Dam	Minimum	45	53	30	26	32	35	42	52	48	37	49	50	41	41	41	34	21	24	27	19	20	16	17	24	26	47	51	35	24	23	..	34.7
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Lebanon	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	76	69	52	56	50	59	71	64	68	63	56	53	68	51	54	41	36	40	39	27	37	40	42	57	56	54	60	58	51	47	..	53.2
Frankfort	Minimum	42	50	29	23	32	35	44	58	40	35	41	49	41	38	40	33	30	19	26	19	20	12	13	14	21	44	47	34	22	21	..	32.2
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Glasgow	Minimum	48	35	32	30	20	32	45	48	45	48	45	45	48	40	32	32	28	20	24	18	16	11	12	32	47	48	40	35	32	28	..	38.9
	Maximum	77	72	51	59	51	63	71	66	67	58	57	67	69	62	46	43	37	45	42	28	34	36	43	57	57	56	58	59	52	48	..	54.4
Greensburg	Minimum	39	48	25	18	32	26	37	43	50	37	46	42	35	36	36	31	28	18	25	16	18	9	10	12	21	43	48	32	20	24	..	30.2
	Maximum	76	69	53	55	47	60	69	63	64	58	52	62	66	56	42	40	37	42	38	24	33	37	42	54	60	54	60	57	52	42	..	52.1
Irvington	Minimum	47	49	32	24	41	29	49	54	43	42	41	42	40	41	40	33	29	24	23	17	18	16	17	21	35	47	51	30	26	24	..	34.2
	Maximum	76	62	49	56	44	58	70	61	65	61	53	62	66	49	40	36	33	39	34	22	32	37	42	57	55	53	59	57	49	38	..	50.5
Leitchfield	Minimum	45	35	28	21	38	35	42	49	42	41	45	46	40	38	36	32	23	21	20	17	19	13	17	24	35	43	50	26	22	22	..	32.2
	Maximum	77	70	50	57	51	61	69	63	64	59	53	67	69	59	44	40	35	44	40	25	33	38	43	56	56	54	60	57	53	46	..	53.1
Lexington	Minimum	45	50	31	26	41	29	47	58	47	42	47	44	41	40	37	31	29	23	25	16	13	14	15	19	33	45	51	32	23	28	..	33.6
	Maximum	76	66	48	54	48	61	69	60	65	63	53	64	66	51	42	37	36	40	35	22	32	37	40	58	57	55	60	56	50	36	..	51.1
Louisville	Minimum	49	43	34	31	42	38	52	56	44	43	46	44	43	40	36	33	29	27	21	16	20	21	21	25	35	48	49	26	25	24	..	35.5
	Maximum	77	59	47	55	45	60	70	60	65	64	53	65	66	45	42	38	35	40	34	23	33	35	44	55	57	55	60	57	51	34	..	50.8
Do. Bowman Field	Minimum	47	58	33	26	41	29	50	57	44	38	46	43	39	41	40	35	31	23	33	19	21	16	16	19	33	46	50	33	24	28	..	35.8
	Maximum	69	63	44	45	45	51	67	62	62	53	50	59	59	58	45	40	41	37	36	28	27	27	44	61	58	59	61	60	52	45	..	50.3
Mammoth Cave	Minimum	46	43	29	17	34	30	47	53	50	40	45	42	38	39	32	30	29	17	23	15	18	7	9	13	28	44	51	29	18	23	..	31 3
	Maximum	77	70	51	56	52	61	69	68	66	54	54	67	72	54	43	43	42	41	40	27	37	39	43	57	56	55	60	58	52	47	..	50.4
St. John	Minimum	44	48	31	19	31	26	48	54	40	38	45	43	36	40	39	31	30	20	19	11	16	13	14	18	27	44	50	29	21	22	..	31.6
	Maximum	77	67	52	56	47	59	70	68	68	55	63	64	71	59	41	39	37	39	38	26	35	37	44	53	56	52	59	56	50	42	..	52.6
Shelbyville	Minimum	43	46	29	21	36	31	42	49	41	39	43	35	38	36	37	31	28	19	23	16	19	12	14	19	31	44	49	31	20	19	..	31.7
	Maximum	76	61	48	50	50	64	71	64	65	56	55	66	70	54	45	37	39	46	34	25	36	38	44	58	57	56	64	48	53	42	..	53.0
Smith's Grove	Minimum	49	45	32	22	42	28	46	54	52	49	49	46	41	38	30	36	30	24	32	18	16	15	16	18	31	45	52	30	23	26	..	35.2
	Maximum	74	67	50	60	49	60	68	64	54	54	55	62	66	56	46	36	30	48	35	18	25	33	42	57	55	57	65	59	50	48	..	51.4
Stearns	Minimum	49	32	23	38	31	40	43	51	48	44	42	43	35	33	33	29	31	34	15	15	10	13	20	31	46	48	53	24	26	24	..	33.1
	Maximum	78	71	55	60	52	61	72	67	70	67	60	65	68	61	48	41	35	42	38	31	35	42	47	60	56	57	59	58	50	47	..	54.9
Williamstown	Minimum	44	49	27	25	39	35	45	52	40	39	40	45	48	39	36	33	27	20	24	17	17	14	17	20	28	44	49	32	20	19	..	32.8
Eastern Division.	Maximum	75	71	58	56	50	62	70	70	70	66	56	67	70	55	48	41	37	48	40	35	29	33	38	47	48	53	63	61	50	43	..	53.3
Ashland	Minimum	38	53	31	25	25	37	37	40	40	32	32	48	47	41	38	37	32	23	34	21	20	24	14	20	21	38	44	39	28	26	..	32.8
	Maximum	75	67	53	57	50	59	68	67	62	60	56	59	67	61	45	42	34	44	32	27	28	33	41	56	56	52	59	48	46	42	..	52.4
Berea	Minimum	37	51	29	21	34	47	43	54	49	47	47	47	40	41	39	32	25	32	29	17	18	10	13	18	33	45	49	34	22	25	..	33.5
	Maximum	78	66	70	60	52	60	62	61	66	54	53	56	58	57	57	47	38	48	46	34	31	32	46	57	60	63	64	60	62	54	..	54.9
Cumberland	Minimum	38	31	36	22	29	34	36	36	31	39	45	46	42	32	31	36	30	20	32	18	26	9	11	12	40	39	42	29	23	21	..	30.5
	Maximum	80	72	56	61	50	62	74	71	66	65	63	62	79	65	48	41	38	42	41	30	31	36	45	58	53	55	60	60	51	49	..	55.5
Farmers	Minimum	40	49	23	15	23	34	29	47	44	39	36	34	31	30	36	33	28	15	26	20	12	18	6	9	15	37	..	..	..	..	..	*27.8
	Maximum	78	75	59	59	49	61	70	70	68	67	53	56	69	63	48	43	35	47	40	30	28	32	42	57	47	53	63	60	51	42	..	53.7
Heidelberg	Minimum	36	44	28	20	28	32	32	33	51	32	45	43	40	31	41	35	31	20	30	20	20	10	11	12	20	39	42	42	20	21	..	30 6
	Maximum	75	63	51	56	46	57	71	65	66	66	53	60	68	57	43	41	35	39	35	28	33	38	43	57	48	56	61	65	48	46	..	52.3
Maysville	Minimum	43	49	29	22	30	37	39	53	39	32	40	49	49	41	39	35	32	20	28	21	20	17	14	15	20	41	47	35	21	25	..	32.7
	Maximum	71	69	65	61	55	58	64	64	64	59	57	61	66	63	59	55	52	49	45	41	37	34	45	53	56	58	62	60	55	52	..	56.2
Middlesboro	Minimum	42	43	36	22	29	32	32	42	55	47	49	49	37	35	39	39	31	20	34	19	18	10	12	14	24	39	44	38	23	22	..	32.2
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	76	71	47	57	53	55	72	65	69	61	58	56	68	61	44	42	36	47	43	26	28	32	40	48	54	56	62	67	50	48	..	53.1
Pikeville	Minimum	27	43	33	27	29	40	32	35	52	40	45	47	47	36	43	40	34	26	34	23	20	20	14	16	22	36	46	50	26	21	..	33.9
	Maximum	76	71	60	65	52	64	60	65	71	64	62	57	71	65	67	66	55	60	52	47	40	26	36	47	65	56	66	71	55	53	..	58.6
Pippapass	Minimum	37	46	31	24	29	38	30	32	49	38	45	43	41	40	37	38	31	30	20	34	19	12	12	12	35	33	40	40	24	25	..	32.2
	Maximum	81	72	53	62	50	68	78	72	69	65	54	56	68	47	47	43	34	35	42	29	27	37	48	22	38	49	58	61	52	53	..	52.0
Quicksand	Minimum	84	42	28	22	26	33	30	31	47	34	43	45	40	34	39	31	29	19	26	18	17	10	12	18	35	40	36	20	20	..	..	29.0
	Maximum	73	60	55	54	62	52	60	68	65	68	58	60	58	57	52	47	40	37	42	35	30	34	35	45	60	55	58	60	52	50	..	52.6
Richmond	Minimum	48	45	32	27	38	35	45	52	50	40	48	47	48	42	40	35	30	23	32	19	18	15	18	20	32	50	50	58	24	25	..	35.9
	Maximum	79	75	54	62	53	64	68	70	67	57	57	65	73	59	48	41	37	34	48	30	23	31	41	60	59	60	68	63	58	54	..	55.6
Williamsburg	Minimum	39	36	29	23	35	38	33	36	44	45	47	48	36	39	35	32	31	24	20	19	19	10	12	14	24	50	45	30	20	18	..	30.7
	Maximum	74	64	47	54	44	57	68	64	64	62	54	58	67	50	41	36	30	39	32	20	30	34	41	55	52	53	56	58	48	46	..	49 6
Winchester	Minimum	45	56	30	24	35	32	44	50	50	40	46	46	40	40	38	34	28	21	32	18	18	15	18	19	30	43	49	49	49	22	..	35.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.
W. B. O. Louisville, 12-25-37 1109

L.B9
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., DECEMBER, 1937 No. 12

THE LIBRARY OF THE
JAN 17 1938

GENERAL SUMMARY.

Weather much colder than the seasonal average prevailed during the first two weeks, but moderate to rather high temperatures predominated thereafter. Light snow in the first week afforded some protection to winter grains during the coldest weather. The dry cold hindered the stripping and marketing of tobacco. In some eastern hilly sections the deep freezing of the limited water supplies in small streams made it difficult to obtain water for livestock. Heavier feeding than usual became necessary, while milk and egg production decreased. Toward the end of the cold spell light rain at temperatures below freezing, on ground already frozen to considerable depth, formed an unusually slippery coating of glaze that almost entirely paralyzed traffic on roads and resulted in many accidents. The ice load was not heavy enough to cause much damage to trees and wire systems. The worst glaze conditions prevailed from the night of the 12th to the morning of the 15th. The lifting effect of the severe freezes on winter grains was not important, because the ground had frozen when the water content was comparatively low. The ice cover did not remain on grain fields long enough to cause much damage from smothering.

A sharp rise in temperature on the 15th brought a complete thaw and was followed by heavy rain. Beginning with this wet period progress with stripping tobacco improved, but very soft dirt roads hampered deliveries. The thaw and rain renewed the water supply in the dry upland districts. Temperatures far above normal in the last week started growth in pastures and grain fields. Wheat, rye, and barley appeared to be in good condition. Frozen ground in the first half and wet soil in the last prevented plowing. The wet fields and frequent precipitation in the last two weeks interfered with corn gathering and the removal of fodder, which had not been completed.

TEMPERATURE.

The deficiency in the first two weeks brought the average temperature for the month considerably below normal. Daily means in that period ranged from 7° to 25° below the seasonal average. A short warm interval from the 15th to 17th was followed by three moderately cold days, after which temperatures remained above normal, with the daily excess increasing toward the end. Minima above freezing were reported on most days in the last week. Extremes at the various stations ranged between 68° on the 16th at Pippapass and 0° in the period 9-10th at Eubank, Heidelberg and Mt. Sterling.

PRECIPITATION.

Limited areas in the east-west central belt and most of the southeastern counties received only about half of the normal precipitation. From the east-central counties to the Big Sandy Valley, also in the valley of the lower Green, amounts ranged between 2.0 and 3.0 inches. In most southern districts, a narrow north-south belt across the central part of the State, and in the extreme northern counties from 3.0 to 4.5 inches occurred. The average for the State was about three-fourths of the normal amount. The range was from 1.25 inches at Farmers to 4.60 inches at Russellville. Light and somewhat scattered precipitation occurred in the periods 1st-9th and 23d-28th. It was more general and often moderate to heavy from the 13th to 15th. Fairly heavy rains were reported from many stations on the 17th and 18th. Total snowfall ranged from 1.0 inch along the southern boundary to 6.0 inches at some extreme northern and eastern stations. A considerable area in the central and western counties received from a trace to 1.0 inch. Most of the snow occurred on the 6th and 7th. Occasional thunderstorms were reported on the 22d.

MISCELLANEOUS.

Rivers.—A rise that began in the upper course of the Ohio on the 17th produced a moderate swell that culminated in the middle and lower sections from the 24th to 27th. Flood stage was not reached at any station.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.19	30.61	2	29.61	17	8.7	23	n.	4	84	75	78	28
Cincinnati .....Ohio	30.18	30.63	2	29.57	17	8.0	26	sw	8	83	77	78	33
Evansville.....Ind.	30.19	30.64	2	29.57	17	9.0	29	sw.	21	80	73	74	25
Louisville .....Ky.	30.20	30.64	2	29.52	17	9.6	27	sw.	8	80	71	78	31

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature. †Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	50.2	76	13	1.57	....	..	..	..	..
1890	37.8	70	12	3.51	....	..	..	..	..
1891	42.4	70	15	4.10	....	..	..	..	..
1892	34.6	74	− 3	4.22	....	..	..	..	..
1893	39.0	78	10	2.69	....	..	..	..	..
1894	38.7	76	−11	4.31	....	10	..	..	..
1895	38.8	77	6	4.43	....	9	7	9	15
1896	39.6	73	7	1.82	....	4	14	8	9
1897	38.0	72	3	3.75	2.5	10	5	8	18
1898	34.1	70	−12	2.74	5.7	8	14	7	10
1899	34.8	70	−15	4.26	2.6	10	12	8	11
1900	38.6	70	12	2.59	0.1	8	13	6	12
1901	32.3	72	−22	4.90	5.7	10	8	7	16
1902	36.7	72	− 3	7.36	2.4	12	7	5	19
1903	30.7	58	0	2.88	2.0	7	16	6	9
1904	36.4	72	− 2	4.80	2.4	11	10	5	16
1905	37.3	66	11	4.88	1.2	8	11	5	15
1906	39 0	76	− 9	5.64	1.6	15	6	4	21
1907	38.5	70	8	3.20	1.0	11	8	5	18
1908	39.8	74	7	2.42	0.4	9	11	6	14
1909	29.9	79	−14	3.46	3.3	9	10	5	16
1910	31.1	66	− 3	3.37	6.6	8	11	5	15
1911	41.6	74	11	6.25	0.4	12	9	4	18
1912	37.2	73	5	3.98	5.2	9	14	5	12
1913	39.5	70	11	2.73	1.6	7	10	5	15
1914	32.8	70	−16	5.22	7.7	14	6	4	21
1915	37.0	64	9	7.56	3.3	12	10	6	15
1916	35.5	74	−14	4.23	10.1	10	12	7	12
1917	28.5	72	−21	2.01	17.3	8	10	7	14
1918	44.8	75	14	4.44	0.7	12	10	6	15
1919	34.6	68	3	4.93	1.0	7	12	5	14
1920	38.6	68	4	2.89	2.0	9	9	6	16
1921	41.7	73	18	4.40	0.1	7	10	6	15
1922	41.5	77	5	5.64	0.2	12	10	6	15
1923	46.6	75	8	6.60	2.1	14	9	5	17
1924	35.9	79	− 9	5.97	1.2	9	18	5	13
1925	34.8	70	− 5	0.89	1.7	5	13	6	12
1926	37.8	75	5	6.01	0.3	12	8	5	18
1927	37.4	77	1	3.37	0.5	10	14	4	13
1928	39.5	72	5	2.32	T.	7	17	5	9
1929	39.0	76	−15	2.72	6.8	11	10	5	16
1930	35.4	69	2	2.21	2.6	8	10	7	14
1931	46.1	73	17	5.48	0.0	13	7	5	19
1932	37.9	72	− 8	4.32	1.9	12	10	6	15
1933	44.2	75	− 5	4.99	1.4	10	9	7	15
1934	37.0	69	5	2.18	1.5	9	10	6	15
1935	30.0	63	−14	2.39	9.0	9	8	7	16
1936	40 5	70	10	4.51	2.0	10	13	5	13
1937	35.5	68	0	2.94	2.0	12	7	6	18
Period	37.7	79	−22	3.94	3.0	10	10	6	15

†49-year averages.

Climatological Data for December, 1937.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Birmingham	Marshall										2.17		0.88		4					Tennessee Valley Authority.
Earlington	Hopkins	437	33	36.8	− 2.1	62	15†	7	11	34	2.68	−1.64	0.50	T.	12	6	3	22	sw.	W. A. Taylor.
Fords Ferry, Dam 50	Crittenden	356	8								2.41		0.86	0.3	15					Brick Southworth.
Greenville	Muhlenburg	519	20	35.5	− 3.7	62	15†	2	11	85	2.44	−1.52	0.55		12	4	14	13	n.	Lockmaster.
Henderson	Henderson	382	28	34.4		59	15†	7	6	33	3.77	−0.87	1.00	T	11	1	12	18	sw.	C. R. Lovell.
Hopkinsville	Christian	524	41	37.4	− 1.6	65	15†	5	11	33	3.43	−1.45	0.95		11	8	7	16	s.	Frank Street.
Lovelaceville	Ballard		8	*35.6	− 4.2	59a	15	8a	10	28a	4.40	+0.29	1.25		8	5	5	21	s.	W. K. Morris.
Mayfield	Calloway	364	28	*37.0	− 3.4	61a	16	5a	9	26a	3.00	−1.32	0.76	1.0	10	5	8	18	n.	Blaine Malone.
Murray	Graves	412	11	36.4	− 2.8	60	17	8	9	22	3.72	−0.97	1.00	1.0	14	9	0	22	n.	Mrs. Joe Payne.
Owensboro	Daviess	479	40	34.0	− 3.2	57	31	5	6†	29	2.53	−1.21	0.60	1.5	12	5	2	24	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	4								2.35	−0.82	0.61	T	13					Lockmaster.
Paducah **	McCracken	516	20	36.0	− 3.0	61	16	6	9†	27	3.09	−1.10	0.92	0.5	15	4	5	22		Joe Lagore.
Princeton	Caldwell	529	30	35.8	− 2.4	61	15	6	9†	30	3.23	−1.13	0.74	0.4	19	3	6	22	sw.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	20								2.04	−1.78	0.48	T.	13					Lockmaster.
Russellville	Logan	590	26	*34.9	− 3.9	65a	15	5	9	32a	4.60	−0.62	1.10		12	7	1	23	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	9								2.70	+0.40	1.16		15					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	9								2.67	−0.94	0.82		13					Lockmaster.
Anchorage	Jefferson	700	36	33.2	− 1.7	57	16†	4	11	32	4.14	+0.28	1.35	0.9	9	5	6	20	se.	C. E. Barret.
Bowling Green	Warren	500	48	38.8	− 0.2	68	15	9	9	26	4.20	−0.52	1.60	1.4	12	3	5	23	w.	Mrs. Lillie G Causey.
Brownsville, Lock 6	Edmouson	410	20								3.27	−1.47	1.30	0.7	14					Lockmaster.
Burnside	Pulaski	705	46								4.24	−0.51	1.63	0.8	12					T. A. Lewis
Carrollton, Lock 1	Carroll	480	38								2.85	−0.25	0.76		11					Lockmaster.
Cold Spring, Dam 36	Campbell	489	11								3.64	+0.81	1.14	1.5	15					Lockmaster.
Danville	Boyle	540	4	35.0		61	16	7	9	36	2.08	−1.76	0.98	3.3	12	3	7	21	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	9	36.6	− 3.4	59	17	9	9†	33	2.81	−1.19	1.09		16	9	8	14		C. W. Williams.
Eadsville	Wayne	622																		Lockmaster.
Eubank	Pulaski	1177	43	33.2	− 3.8	57	17	0	10	23	1.81	−2.85	1.35		3	7	9	15	s.	Mrs. Katie Payne.
Frankfort	Franklin	560	45	34.8	− 2.1	60	17	5	11	34	3.04	−0.76	1.70	0.8	11	9	0	22	w.	Lockmaster.
Gest, Lock 3	Henry	490	26								3.51	−0.28	1.85	1.0	11					Lockmaster.
Glasgow	Barren	780	11																	R. L. Beatty.
Grant, Dam 38	Boone	780	12								2.66	+0.06	0.90		15					Lockmaster.
Greensburg	Green	581	44	36.0	− 1.3	69	15	2	9†	31	2.44	−2.08	0.70	0.2	13	3	0	28	se.	Mrs. Bettie K. H. Aleorn.
High Bridge, Lock 7	Jessamine	544	35								2.72	−1.31	1.28	2.2	15					Lockmaster.
Irvington	Breckinridge	646	39	35.9	− 1.4	69	17	9	7†	27	2.95	−0.98	0.86	T.	12	7	2	22	sw.	W. J. Piggot.
Lancaster	Garrard	1032	11								2.70	−0.46	0.96		14					Walter Killion.
Leitchfield	Grayson	635	41	35.9	− 1.3	60	15	6	7†	28	3.68	−1.06	0.87	1.0	16	5	6	20	sw.	H. H. Willis.
Lexington	Fayette	959	53	34.2	− 1.6	58	17	6	10	27	3.51	−0.26	1.10	3.6	19	6	5	20		U. S. Weather Bureau.
Little Hickman, Lock 8	Jessamine	560	26								1.98	−1.70	1.03	1.0	9					Lockmaster.
Lockport, Lock 2	Henry	485	27								3.54	−0.14	1.48	0.7	10					Lockmaster.
LOUISVILLE	Jefferson	459	64	34.4	− 3.2	59	16	9	6	26	3.58	−0.16	1.40	0.4	14	5	5	21	sw.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558		35.5		58	16	9	7†	29	3.51		1.76		14					U. S. Dept. of Commerce.
Mammoth Cave	Edmonson			36.6		65	15†	3	10†	38	3.93		1.40	0.2	15	10	4	17	sw.	Ivan J. Ellsworth.
Manfordville	Hart	600	14								2.42	−1.65	0.97		8					Mrs. M. W. Price.
St. Joan	Hardin	777	41	35.9	+ 0.1	60	15	5	11	31	3.30	−1.22	1.00	T.	13	13	16	2		Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	23								1.95	−2.45	1.04		6					Lockmaster.
Shelbyville	Shelby	825	48	33.6	− 2.1	57	17	6	9†	29	3.89	−0.29	1.10	0.7	16	8	1	12	sw.	Miss Ruth Ratta.
Shepherdsville	Bullitt	500									2.98		0.97	0.5	12	7	1	23	w.	A. McLeod.
Smith's Grove	Warren	607		36.6		65	15	6	10†	26	3.44		1.23		10					Airway Station.
Stearns	McCreary	1400	35	36.8		60	15	4	9†	32	3.24		1.18	2.0	13					Geo. Wright
Tyrone, Lock 5	Anderson	524	19								2.31	−1.78	0.95	4.4	14					Lockmaster.
Williamstown	Grant	943	34	34.2	− 0.6	57	17†	6	9	30	3.95	+0.41	1.25	1.0	9	9	1	21	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	20								2.88	−1.3	1.28	0.3	11					Lockmaster.
Eastern Division.																				
Annville	Jackson		6								2.51		1.24	4.2	15	6	6	19	sw.	W. A. Worthington.
Ashland	Boyd	534	18	34.6	− 4.1	63	31	5	9	28	2.38	−1.27	0.64	4.0	17	9	2	20	w.	Lockmaster.
Berea	Madison	1070	32	36.4	− 1.6	62	17	6	9†	33	2.94	−1.52	0.94	3.4	14	10	2	19	sw	Luther M. Ambrose.
Burkesville	Cumberland	590																		C. D. Norris.
College Hill, Lock 11	Madison	611	27								2.43	−1.55	1.06	3.7	12					Lockmaster.
Cumberland	Harlan	1440		36.3		64	17	2	11	34	2.19		0.66	2.8	8	13	12	6	w.	C. Bertrand Fields,
Cynthiana	Harrison	684	19								3.10	−0.25	0.90		7					P. H. Kehoe.
Falmouth	Pendleton	600	48								4.48	+0.86	1.97	0.7	15					J. V. Oldham.
Farmers	Rowan	668	29	*33.4	− 3.5	61a	31	1a	12	34a	1.25	−2.61	0.30	2.0	9	10	1	20	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	841	12								3.24	+0.54	1.61		10					C. A. Glascock
Ford, Lock 10	Clark	637	21								2.24	−1.48	0.99	2.0	11					Lockmaster.
Greenup, Dam 30	Greenup	1197	9								2.98	−0.31	0.85	7.0	16					Lockmaster.
Hazard	Perry	869	13								1.83	−2.89	1.20		6					Chas. O. Ilrig.
Heidelberg, Lock 14	Lee	663	20	34.5		62	31	0	9	36	2.73	−0.93	1.22	2.5	12	5	4	22	sw.	Lockmaster.
Jackson	Breathitt	540	17								3.73		1.25	7.0	8					Jas. T. Goff.
Jenkins	Letcher	776									2.28	−1.40	0.45	8.0	11					R. J. Howard.
Louisa	Lawrence	584	33								2.45	−1.19	0.85	6.5	8					B. H. Griffin.
Maysville	Mason	524	17	34.0	− 1.8	58	17	5	9	34	3.62	−0.11	1.48	6.0	14	6	4	21	sw.	Lockmaster.
Middlesboro	Bell	1128	40	38.0	− 1.0	60	16†	5	11	27	2.56	−2.43	0.80		8	7	14	10		Matthew Woodson
Mount Sterling	Montgomery	930	41	32.6	− 3.0	67	15	0	9	22	2.85	−1.57	0.96	1.0	11	3	2	22	w.	W. R. McKee.
Oneida	Clay		17								2.98		1.33		6					Joe L. Gay.
Oneonta, Dam 35	Campbell	497	10								3.32	−0.09	1.18	5.8	14					Lockmaster.
Paintsville	Johnson	567	3								2.29		0.82	2.2	11					Manuel Robinson.
Pikeville	Pike	636	31	37.8		64	17	9	11	27	1.85	−1.67	0.5	3.0	14					U. S Weather Bureau.
Pippapass	Knott	1035	3	37.0		68	16	7	9†	43	2.27		0.42	3.5	12	11	4	16	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	11	*33.2	− 6.4	61a	31	1a	10†	39a										R. W. Jones.
Ravenna, Lock 12	Estill	631	19								1.76	−1.65	0.34		8					Lockmaster.
Richmond	Madison	926	46	36.5	− 1.7	60	17†	5	9	25	2.85	−1.67	0.75		13	6	0	25		J. W. Crooke.
Valley View, Lock 9	Madison	571	24								2.48	−1.43	0.98	2.5	18					Lockmaster.
Vanceburg, Dam 32	Lewis	525	22								3.56	−0.24	1.45	3.5	13					Lockmaster.
Williamsburg	Whitley	939	38	37.8	− 2.9	65	16	5	11	43	2.71	−1.38	0.73	1.0	13	6	12			Wadely West.
Willow Lock 13	Lee	646	20								3.03	−0.97	1.60		12					Lockmaster.
Winchester	Clark	964		34.4		60	17	5	9	28	2.57		0.83		18					Airway Station.
State averages and extremes				35.5	− 2.2	68	16	0	9†	33	2.94	−1.00	1.97	2.0	12	7	6	18	sw.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow §Lone Oak.
¶Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.
* * Precipitation by U. S. Engineers.

Daily Precipitation for December, 1937.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Birmingham T.																	.81									.83		.21		.32		2.17
Earlington G.	T.	.02		.08				T.				.50	.15		.15	.40	.30					.29	.04				.48	.02			.20	2.63
Fords Ferry Dam 50‖ O.		.01		.08	T.	T.		.02				.14	.23	.02	.05	.86	.42					.06	.22	T.	.01		.16	.10	T.	T	.04	2.41
Greenville G.				T.								.48	.15		.10	.55	.60					.25	.03	.02	.02		.20			.02	.12	2.44
Henderson O.	.07	T		.15	T.							.33	.16		.80	1.00	.08					.28					.69		.03	T	.48	3.77
Hopkinsville C.				.10								.45	.20		.20	.95	.28					.48			.50				.05	.02	.20	3.43
Lovelaceville M.			.50								.50			.75	1.25	.25					.60				.45				.10		4.46
Mayfield M.				.03				.10				.49	.06		.08	.29	.40						.64			.70					.20	3.00
Murray T.				.04				.03				.55	.05	.01	.31	.62	.26				.62	.02			1.00	.01	.02		.88	3.72
Owensboro O.	.15			.21	T.	T.	T.					.10	.18	T.	.30	.60	.17				.12	T.	.05	T.	.42			.05	.18	2.53
Owensboro, Dam 46 ‖ O.		.04		.07	.03	T	T.	.01				.02	.10	.03	.14	.64	.37				T	.28	T.	.02	.04	.45				.11	2.35
Paducah O.			.01	.09	.02	T.		.04				.21	.34		.10	.92	.49				.20	.30	.01	T.	.25	.06	T.	T	.05	3.09
Princeton G.	.08			.06	.02	T.	T.	.02			T.	.50	.05	.01	.25	.74	.16				.40	.03	.02	.01	.48	.02	.02	.05	.36	3.23
Ramsey, Lock No. 2 ‖ G.		.02		.05	.04							.07	.23		.03	.48	.46					.20		.02	.02	.32			.10		2.04
Russellville‖ G.				.08								.86	.50		.78	.88	1.10				.08	.37			.25	.40		.02	.28	4.60
Uniontown, Dam 49‖ O.		.04		.04	.04							.09	.14	.10	.26	1.16	.31				.02	.26	.01	T.	.07	.14		T.	.02	2.70
Central Division																																
Addison, Dam 45‖ O.				.04	.04	T.	T.	T.				.04	.27	.03	.10	.57	.82			T.		.18	T.	.01	T.	.02	.50		T.	.05	2.67
Anchorage O.				T.	.12	T						.28	.18		.42	1.35	.65			T.	.12					.41				.66	4.14
Bowling Green G.		.04		.14		.05		.10				.30	.40		.22	.30	1.60				.10	.35				.60					4.20
Brownsville, Lock No. 6‖ G.				.05	.05	.03		.02	.01			.36	.40		.05	.24	1.80				.05	.40				.08	.23				3.27
Burnside‖ C.		.04		T.	.23	.13	T.	.04	T.			.53	.66		.31	.18	1.63					.25		T.		.04	.80			T.	4.24
Carrollton ‖ (Lock No. 1) K.						.12						.18	.06	.08	.15	.76	.68					.12				.36	.26			.09	2.86
Cold Spring, Dam 36‖ O.					.06	.06	.02	.02	T.			.22	.04	.03	.12	1.05	1.14	.02				.16	.02	.02		T	.60			T.	3.64
Danville K.		.06			.03	.09	T.	T.	T.			.27	.16	T.	.05	.15	.93	T.		T.		.07	.01	.05			.16				2.08
Dix Dam, Burgin ‖‖ K.	.01			.08	.09		.02					.31	.11	.02	.04	.15	1.09	.01	T.			.08	.01	.03		.04	.42				2.51
Eadsville ‖ C.																																
Eubank C.		T.			.01	T.	T.	T.	T.								1.35									.45					1.81
Frankfort‖ K.				T.	.03	.13	T.	T.				.16	.12	.05	.02	.86	1.70			T.		.12			T.	.05	.30		T.		3.04
Gest, Lock No. 3 ‖ K.						.13						.08	.05	.10	.08	.43	1.85					.21	T	.05		.08	.45		T.	T.	3.51
Glasgow G.																																
Grant, Dam 38‖ O.				T.	.05		.03	.03	T.			.28	.02	T.	.27	.15	.99		T.	.03		.06	.02	.02		.23	.45	T.	T.	.03	2.66
Greensburg G.		.02			.10	.02			T			.43	.34	.01	.08	.20	.70				.01	.18				.10	.25				2.44
High Bridge, Lock No. 7‖ K.		.01		.68	.10	T.	T.					.26	.11	.07	.05	.15	1.28	.02				.08	.02	.08		.03	.38				2.72
Irvington O.	T.			.03	.02	T.	T.	T.			1.	.12	.07		.86	.66	.66					.18	.07	.02		.33			T.	.23	2.95
Lancaster‖ K.	.04			.13	.18			.03			.40	.16			.14	.96						.06	.03	.07		.04	.17			.30	2.70
Leitchfield G.	.02	.10		.03	.03							.42	.23		.16	.84	.87					.25	.05	.06	.01		.43		.02	.16	3.68
Lexington *** K.	T.	T.		.14	.24	.02	.07	.01			.05	.29	.16		.25	1.10	.13		.01			.20	.01	.06	.01		.23		.01	.52	3.51
Little Rickman, Lock No. 8 ‖ K.		.05			.08	.06						.23	T.		T.	.18	1.03						.10	T.	T.		.10	.16				1.98
Lockport, Lock No. 2 ‖ K.					.07	.10							.10	.10	.32	.37	1.48						.15				.43	.42				3.54
LOUISVILLE*** O.				.02	.04	T.					.05	.17	.08		.52	1.34	.18		T.		.17		.02	.01		.43		.01	.54	3.58
Do. Bowman Field O.				T.	.03	.10	T.	T.				.16	.20	.09	.11	.44	1.76			T.		.19	T.	.02	.01	.03	.39		T.	.01	3.54
Mammoth Cave G.	T.	.10		.03	.09	T.	T.	T.	T.	T.	T.	.61	.16		.16	1.40	.40	.01			.39	.03	.03	.01	.46		T.		.06	3.99
Muufordville G.		T.			.16			T	.05			.24	.36		T.	.23	.97					.24				T.	.24				2.43
St. John S.	T.	.05		.10	.10			T.				.15	.10	.10	.15	.82	1.60				.18	T.	.05	T.		.85	T.			.15	3.30
Salvisa, Lock No 6 ‖ K.					.10	.15		T.				.35	.16		T.	1.04						.15	T.	T.		T.	T.				1.95
Shelbyville S.				.05	.10	.08	T.					.16	.06	T	.32	.85	1.10				.21	.03	.09	.05		.46	.10		.02	.21	3.89
Shepherdsville S.				.06	.05							.62		.08	.65		.97				.12	.03	.02	.01		.19				.18	2.98
Smith's Grove G.		T		T.	.12	T.	T.	T.	T.			.35	.40		.18	.28	1.23				T.	.35	T.	T.		.11	.33		T.	.05	3.44
Stearns C.	T.	T.			.22	.11	.03	.03	.02			.18	.50			.08	1.18	.01				.32	.04				.52					3.24
Tyrone, Lock No. 5‖ K.				T.	.10	.15	T.	.02				.08	.10	.02	.12	.32	.95					.15	.05			.08	.15		.02		2.31
Williamstown L.					.17	.02									.95	.01	1.25				.25		.05			.85			.40		3.05
Woodbury, Lock No. 4‖ G.				.03	.05	T.		.03				.34	.33			.18	1.28				.03	.34				.04	.23				2.88
Eastern Division																																
Aunville C.		.03			.15	.15	.02	.03				.44	.32	.05	.06	.10	1.24	.01				.20	.02				.10					2.91
Ashland ‖ O.					.12	.27	.02	.03				.11	.18	.02	.02	.23	.64	.05		.02		.10	.01	.01			.53	.02				2.38
Berea K.		.04		.05	.18	.04	.10					.53	.20		.22	.94	.35				.03	.06	.03			.17					2.94
Burkeville																																
College Hill, Lock No. 11‖ K.	.03				.09	.14	T.	.03	T.			.23		.04	.08	.10	1.06					.07	T.	.04		T.	.52					2.43
Cumberland C.				.07	.40	.05						.66	.08			.30	.57				.06	T.				T.					2.19
Cynthiana ‖ L.					.20											.90	.85					.10			.30		.15			.60	3.10
Falmouth‖ L.				.02	.10	.01	.01					.31	.07	.07	.20	.59	1.97			T.		.23	T.	.06	.01	.19	.64		T.		4.48
Farmers ‖ L.				.08	.30		.10								.22	.13	.08					.12				.03	.19				1.25
Flemingsburg‖					.28						.01				.68	.30	1.61	.04				.25		.09			.64			.04	3.94
Ford, Lock No. 10 ‖ K.		T.		.02	.10	T.	.04	T.				.20	T.	T.	.28	.22	.59	T.		T		.14	.01	.07			.22				2.24
Greenup, Dam 30‖ O.				.07	.22	.04	.06					.15	.17	T.	.09	.40	.85	.10	.03	.08		.14	T.	.08	T.		.52			.03	2.98
Hazard ‖ K.		.03			.22	.03									.10		1.20	.05				.20									2.83
Heidelberg, Lock No. 14‖ K.				.14	.21	.20	.04					.03	.44	.09	.02	.07	1.22					.09	T.				.18					2.78
Jackson K.				T.	.30	.40						.60		.62	.25	T.	1.25					.18				T.	.18					3.78
Jenkins ‖ B.		.07			.45	.21						.31	.26	.19	.10		.81	.07				.23					.08					2.28
Louisa‖ B.					.20	.10	.15	.20	.20				.18			.67																2.45
Maysville‖ O.				.07	.10		.02					.20	.03	.05	.14	.84	1.48	.05		T.		.25	.02	.02			.83			T.	3.62
Middlesboro C.				.16								.45	.10			.40	.23					.32				.80	.10				2.56
Mount Sterling I.			.20	.30			.07					.11	.08	.40	.13	.96						.20	.20							.20	2.85
Oneida C.				.75									.40		.15	.10	1.38				.20										2.93
Oneonta Dam 35‖ O.				.07	.03	.02	T.					.22	.10	.03	.12	.75	1.18	.02		T.		.19	.04	.02	T.	T.	.53			T.	3.32
Paintsville ‖ B.				.18	.38	.02	.03					.42	.21	.06	.06	.08	.82					.08										2.29
Pikeville‖ B.		.06			.04	.22	.05	.02	.01			.18	.82	.17	T.	.07	.54	.08				.09					.05					1.85
Pippapass K.		.08			.05	.24		T.				.40	.42		.06	.20	.40	.15	T.			.18			.08		.01					2.27
Quicksand‖ K.																																
Ravenna, Lock No. 12‖ K.				.21	.19	T.	T.	T.				.33	T.	.14	T.	.23	.34	T.				.08	T.				.24					1.76
Richmond K.				.05	.05							.05	.20	.30	.20	.25	.75					.10	.05	.10		.20	.25					2.65
Valley View, Lock No. 9‖ K.		.01		.07	.08	T.	.03					.23	.13		.16	.18	.98		T.			.12	.03	.06			.40					2.48
Vanceburg, Dam No. 32 ‖ O.				.06	.05	.02	.03					.17	.15	.07	.13	.30	1.45					.33		.06			.74					3.56
Williamsburg‖ C.				T.	.01	.07	T	.02	T.			.38	.20		T.	.02	.73	.07				.19	.06			.04	.47			.45		2.71
Willow, Lock No. 13‖ K.				.20			.05					.10	.55	.10	.15	.15	1.60					.10	.02	T.		.06	.15					3.03
Winchester K.		.02		.05	.15	.04	.01	.04				.47	.15		.05	.83	.33	T.	T.	T.	.10	.01	.04	.03		.18	.03			.04	2.57

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

¶Lone Oak.

Daily Temperatures for December, 1937.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Earlington	Maximum	40	43	51	49	41	21	29	30	26	29	32	36	38	42	62	62	59	40	35	35	49	48	46	48	49	47	55	53	44	53	59	43.6
	Minimum	21	17	17	39	25	9	10	21	10	9	7	25	31	32	50	57	55	33	30	27	27	42	36	37	41	26	42	34	33	42	52	30.1
Greenville	Maximum	38	44	53	47	39	18	28	29	28	30	32	37	47	46	62	62	62	42	34	36	49	46	47	49	48	48	54	54	44	53	58	44.0
	Minimum	30	14	18	37	18	7	3	20	4	5	2	20	28	50	32	54	40	31	28	24	25	36	36	38	40	23	40	23	24	40	43	27.0
Henderson	Maximum	36	47	50	45	38	18	29	30	29	32	31	35	38	38	69	69	57	38	33	35	49	45	47	49	50	46	52	50	40	48	51	41.7
	Minimum	20	14	25	37	16	7	10	17	9	8	25	29	30	31	41	37	31	28	26	26	37	33	37	39	39	29	27	38	46	27.1		
Hopkinsville	Maximum	41	46	56	46	42	20	30	32	27	32	33	36	35	49	65	63	62	46	39	40	50	46	47	52	50	52	56	55	45	54	60	45.4
	Minimum	25	20	23	38	20	9	14	17	6	6	5	25	29	34	37	53	46	33	29	28	27	36	41	39	38	29	42	34	35	42	49	29.3
Lovelaceville	Maximum	41	44	45	40	21	31	31	26	38	31	34	35	41	57	59	59	37	35	37	48	45	44	48	48	45	52	51	43	51	56	..	*42.4
	Minimum	23	20	37	20	8	7	20	4	7	3	21	28	31	30	54	35	31	28	27	24	38	34	42	39	26	42	38	34	35	50	..	*27.7
Mayfield	Maximum	44	46	48	47	45	23	32	32	27	30	35	34	38	49	60	61	60	39	39	40	50	..	49	50	50	50	54	48	54	59	*45.0	
	Minimum	25	23	25	37	19	10	10	20	5	7	11	22	29	33	35	54	38	32	29	29	27	..	36	40	41	30	42	38	33	36	50	*28.9
Murray	Maximum	41	43	44	44	39	21	31	31	22	27	28	33	39	44	56	58	60	44	35	38	42	42	44	49	49	48	52	55	48	52	59	42.3
	Minimum	26	23	27	38	18	11	10	19	8	9	10	15	30	36	38	56	38	33	32	28	28	40	39	40	42	31	44	46	34	41	52	30.4
Owensboro	Maximum	43	41	48	48	43	20	27	28	25	28	30	35	34	38	56	55	56	43	43	39	49	47	47	49	47	49	51	51	47	48	57	42.0
	Minimum	23	12	21	36	23	5	7	10	5	6	7	23	28	30	31	40	38	30	27	24	36	35	33	38	36	24	37	36	33	36	45	26.1
Paducah	Maximum	42	45	48	43	36	21	32	32	28	31	31	35	36	43	60	61	59	37	37	38	51	47	47	50	50	50	53	51	40	52	58	43.4
	Minimum	23	18	24	36	20	11	10	21	6	6	7	23	30	33	30	55	37	33	30	27	26	42	35	40	40	27	42	31	34	37	52	28.6
Princeton	Maximum	47	45	53	46	36	20	30	30	28	29	31	36	38	43	61	60	59	39	39	37	50	47	46	49	48	49	55	54	53	52	58	44.1
	Minimum	28	21	23	36	30	10	8	20	6	6	6	24	30	33	33	55	36	32	30	28	26	40	36	40	40	29	42	33	33	34	51	28.5
Russellville§§	Maximum	41	42	53	41	28	13	..	26	23	29	32	36	38	46	65	62	60	36	34	38	48	45	46	49	51	51	53	52	36	53	59	43.2
	Minimum	24	21	21	25	27	9	8	12	5	6	7	9	28	32	35	42	54	34	28	26	26	27	39	39	39	28	30	36	48	33	43	26.6
Central Division.																																	
Anchorage	Maximum	39	39	49	51	38	29	24	28	26	29	30	32	31	30	53	57	57	43	34	34	47	45	49	47	45	47	51	49	49	48	55	41.5
	Minimum	19	15	17	36	26	9	7	14	5	5	4	17	25	26	28	42	39	34	30	29	29	38	30	32	38	32	34	35	33	33	47	25.0
Bowling Green	Maximum	46	43	53	44	41	24	35	39	31	37	35	36	39	45	63	61	58	57	37	46	48	44	46	49	55	52	54	56	58	53	58	46.5
	Minimum	25	23	27	40	23	10	11	25	9	10	10	27	31	34	34	54	54	35	30	27	35	34	41	41	42	31	41	34	39	41	49	31.2
Danville	Maximum	41	42	50	43	40	24	27	30	27	28	31	33	31	31	55	61	60	56	36	38	46	43	43	48	52	48	53	58	55	50	57	43.1
	Minimum	19	14	14	30	21	10	10	16	7	9	7	16	26	28	30	51	51	33	26	22	27	35	36	38	38	28	36	37	28	35	44	26.8
Dix Dam	Maximum	43	43	52	48	43	20	26	30	26	27	31	34	34	32	57	58	59	55	37	37	47	44	44	46	51	50	56	53	55	52	58	45.4
	Minimum	22	20	19	41	20	14	14	21	9	9	12	20	29	28	33	51	54	36	33	27	30	39	38	39	39	30	40	41	38	32	48	29.9
Eubank	Maximum	43	31	41	46	39	29	23	24	24	21	19	30	34	37	47	57	57	56	52	48	52	49	40	43	48	48	43	48	51	56	41.0	
	Minimum	23	19	17	27	21	10	6	20	4	0	1	17	19	26	31	34	33	36	29	32	36	37	27	39	45	21	38	31	30	36	45	25.5
Frankfort	Maximum	39	45	50	42	41	25	26	30	28	29	33	32	31	31	43	58	60	56	36	36	46	44	48	49	49	46	53	52	51	49	57	42.4
	Minimum	21	19	16	29	30	11	11	20	7	7	8	16	26	25	30	40	48	33	31	31	29	35	35	34	40	25	35	41	37	29	42	27.1
Glasgow	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Greensburg	Maximum	42	42	56	46	41	24	24	30	25	29	32	35	37	40	63	61	60	57	37	37	47	45	46	49	52	51	55	54	55	52	59	44.6
	Minimum	17	21	25	28	20	10	6	22	2	2	2	20	28	29	30	53	52	34	30	30	30	24	35	38	40	40	26	40	34	35	31	46	27.4
Irvington	Maximum	37	41	50	44	41	19	26	29	27	28	31	36	37	43	68	58	59	50	35	36	47	45	47	46	47	45	52	51	52	48	57	42.4
	Minimum	24	24	23	39	18	10	9	18	9	11	13	24	29	28	31	45	49	33	30	29	30	38	35	39	38	27	41	41	37	41	48	29.4
Leitchfield	Maximum	36	42	49	43	40	20	25	27	28	28	33	33	34	36	60	59	58	56	34	35	47	44	44	47	47	44	53	51	52	50	58	42.4
	Minimum	23	19	21	38	20	7	6	19	6	8	10	24	29	30	33	55	54	34	30	27	28	37	37	40	44	26	41	40	36	42	48	29.4
Lexington	Maximum	41	42	49	41	29	20	27	25	29	31	32	33	29	32	52	57	58	43	33	36	44	42	46	47	48	47	51	46	53	49	55	40.9
	Minimum	28	23	22	36	17	11	12	9	7	6	8	17	26	25	32	53	43	32	29	28	28	36	34	39	37	26	39	38	36	37	47	27.6
Louisville	Maximum	38	42	49	43	32	16	26	29	25	27	30	33	31	32	57	59	56	36	33	36	47	44	47	47	47	45	51	45	48	51	57	40.6
	Minimum	26	23	26	32	15	9	10	14	11	12	13	24	27	26	31	44	34	31	28	30	29	39	30	37	36	31	41	40	36	40	45	28.1
Do. Bowman Field	Maximum	38	42	50	41	30	17	30	30	25	28	30	33	31	33	56	58	57	36	33	35	47	43	48	47	46	46	52	46	51	54	57	41.0
	Minimum	22	21	21	39	30	12	9	24	9	18	13	23	28	27	31	45	44	35	31	31	30	38	34	37	46	29	40	42	38	40	47	30.0
Mammoth Cave	Maximum	44	44	53	49	46	20	26	32	27	38	38	35	38	41	65	65	63	62	41	38	48	45	48	49	51	49	56	54	55	55	60	46.2
	Minimum	17	19	16	35	18	6	5	18	4	8	8	20	28	30	31	54	53	32	27	22	21	36	29	40	43	24	40	31	35	39	50	27.0
St. John	Maximum	39	43	50	44	41	22	24	28	22	30	34	34	34	34	60	59	60	58	55	37	47	47	46	47	48	40	53	52	51	49	58	43.6
	Minimum	22	19	19	34	20	8	6	18	7	7	5	20	27	28	29	53	53	33	37	25	28	35	35	40	43	25	50	40	35	38	47	28.2
Shelbyville	Maximum	37	41	49	41	39	24	25	28	21	29	31	32	30	29	49	55	57	54	34	34	46	42	46	47	45	45	51	52	56	47	54	41.0
	Minimum	22	20	20	34	22	7	7	16	6	6	6	19	25	24	29	42	49	32	28	28	27	37	32	31	34	28	38	35	34	35	36	28.3
Smith's Grove	Maximum	44	44	47	42	31	14	28	30	29	33	36	38	43	45	62	62	58	39	34	38	49	43	46	50	52	50	54	54	58	52	58	43.4
	Minimum	23	23	22	38	30	10	8	26	5	6	6	24	29	33	34	41	54	36	31	26	28	38	38	39	40	44	28	40	37	38	48	29.8
Stearns	Maximum	44	40	52	43	33	12	26	30	26	27	31	36	40	57	60	63	57	40	38	40	45	40	46	52	59	50	49	48	56	50	58	43.5
	Minimum	24	24	20	34	32	12	5	22	4	6	4	19	28	35	42	53	54	40	32	22	25	35	38	41	25	38	40	45	36	35	45	30.2
Williamstown	Maximum	41	45	50	42	41	25	27	27	26	30	31	27	27	27	50	58	57	57	38	33	46	42	46	47	47	49	44	50	58	49	54	41.7
	Minimum	23	20	20	32	24	12	11	20	6	7	9	17	22	23	26	43	44	36	30	29	33	38	26	32	39	33	38	26	32	39	34	37	45	26.7
Eastern Division.																																	
Ashland	Maximum	39	41	45	45	38	31	25	33	27	27	30	32	29	28	42	52	55	45	40	43	45	49	48	55	54	52	44	49	53	48	64	42.2
	Minimum	20	24	17	24	31	16	13	22	5	9	6	22	24	28	38	44	40	33	26	31	28	31	34	43	44	50	36	42	38	31	44	26.9
Berea	Maximum	40	40	50	47	41	25	25	31	25	26	30	34	32	33	61	60	62	58	38	38	44	40	43	49	54	50	54	53	51	52	58	43.6
	Minimum	27	19	17	32	19	11	9	20	6	9	10	15	27	27	32	54	56	35	35	26	25	36	39	47	45	30	40	35	36	41	49	29.1
Cumberland	Maximum	47	49	50	47	44	26	29	34	32	29	32	34	36	38	58	61	64	60	45	41	42	43	44	52	50	55	52	58	57	58	56	46.8
	Minimum	22	29	16	23	16	13	8	21	5	3	2	8	10	32	34	44	58	58	30	22	29	22	29	40	33	39	35	41	29	27	38	26.3
Farmers	Maximum	41	44	48	48	43	31	26	..	32	38	31	31	31	29	41	58	47	59	41	36	37	41	47	51	51	52	49	51	59	54	61	43.6
	Minimum	14	14	10	20	27	12	8	..	10	6	6	1	22	22	25	34	46	34	29	21	27	35	35	30	40	23	29	37	24	22	33	23.3
Heidelberg	Maximum	44	43	49	43	37	29	25	32	27	30	34	31	32	32	40	58	55	55	40	39	45	43	44	51	57	53	53	52	60	52	62	43.4
	Minimum	18	22	18	24	29	11	8	23	6	1	10	28	24	32	35	41	39	34	28	30	28	40	41	43	48	32	34	39	40	25	21	25.6
Maysville	Maximum	38	41	49	41	39	30	24	31	24	26	29	26	25	23	45	55	58	57	37	35	46	45	43	49	51	48	42	50	54	47	56	40.9
	Minimum	20	17	15	26	30	17	16	20	5	6	6	8	23	25	28	41	47	36	33	32	30	28	40	39	44	37	38	39	41	36	33	27.0
Middlesboro	Maximum	48	45	49	45	44	40	37	33	32	29	31	34	35	45	54	60	60	60	58	50	46	42	47	52	58	59	48	57	55	53	55	46.8
	Minimum	21	31	16	24	30	13	9	22	7	8	5	15	30	33	38	47	53	40	36	25	27	40	39	44	47	38	39	45	34	28	35	29.1
Mount Sterling	Maximum	37	40	46	40	39	22	24	23	16	20	25	26	29	67	55	41	38	37	49	47	45	44	49	48	50	51	52	55	54	58	40.0	
	Minimum	18	15	14	25	24	11	13	12	0	3	4	9	25	24	51	38	39	34	31	34	28	30	30	34	30	25	32	33	33	33	43	25.1
Pikeville	Maximum	46	41	48	41	38	29	28	29	27	30	36	33	33	33	55	64	57	42	43	46	48	49	55	56	53	52	54	57	57	57	63	44.9
	Minimum	24	30	18	23	37	22	13	21	11	10	9	12	30	31	33	38	44	54	40	29	34	27	41	39	45	41	36	44	40	30	43	30.6
Pippapass	Maximum	41	40	54	48	41	33	31	35	26	24	35	33	34	35	47	68	67	62	43	37	43	48	49	50	54	60	55	52	55	53	68	45.8
	Minimum	21	26	11	25	32	15	11	20	7	7	12	26	30	32	42	42	40	37	25	31	29	40	34	38	40	33	36	40	33	46	40	28.2
Quicksand	Maximum	33	27	52	39	41	25	25	29	27	11	33	33	32	32	40	..	61	60	42	39	46	46	45	58	58	56	54	56	60	54	64	*42.1
	Minimum	18	21	13	22	20	18	9	18	4	1	1	8	26	26	29	..	25	35	33	22	29	35	33	39	42	33	36	40	30	40	54	*24.3
Richmond	Maximum	40	40	43	50	42	35	24	30	30	24	28	30	34	32	55	55	60	60	40	40	45	45	42	46	50	55	50	50	45	55	53	42.8
	Minimum	23	20	22	37	32	12	10	22	8	9	10	29	27	27	30	58	55	40	32	28	28	36	38	40	45	32	40	40	36	40	47	30.2
Williamsburg	Maximum	48	44	55	48	42	21	29	34	30	31	35	36	38	47	61	65	63	62	41	45	49	46	47	55	62	58	55	53	58	55	58	47.5
	Minimum	29	21	12	25	28	9	10	25	12	15	5	16	31	36	40	49	43	33	22	25	26	32	40	43	44	36	38	31	34	29	47	28.1
Winchester	Maximum	38	39	48	41	30	16	23	29	24	26	28	30	29	30	52	57	60	38	34	36	44	42	44	48	50	46	52	51	52	50	58	39.9
	Minimum	23	20	20	34	30	12	12	22	5	8	8	12	24	26	30	50	54	36	30	28	29	34	38	37	44	30	37	40	36	36	48	28.8

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 1-25-38 1100

1.05
KL

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLII LOUISVILLE, KY., ANNUAL, 1937 No. 13

THE LIBRARY OF THE
MAR 16 1938
UNIVERSITY OF ILLINOIS

GENERAL SUMMARY.

The record precipitation of January culminated toward the end of the month in the greatest flood in the history of the Ohio Valley. The total tangible property loss by this disaster in the State has been estimated at $204,294,000. Damage by soil erosion during these excessive rains exceeded in magnitude any such condition ever known. State authorities estimated that one million acres were excessively eroded, and that damaging deposits of gravel and silt occurred on 244,000 acres. The light to moderate precipitation of February and March permitted the soil to drain and plowing to be resumed. Unseasonable warmth in February kept winter grains growing slowly, but the abnormal cold of March served to check this untimely advancement and to hold back fruit buds. Showery and cold weather in April and the first three weeks of May delayed the growth of early vegetation, especially tobacco plants, and interfered seriously with the planting of early corn. Dry weather in May, when grains were heading, and late in June at the time of harvest, came at opportune times for the best development of the wheat crop. While the dry weather of May delayed tobacco transplanting in the hilly sections, it was favorable for performing the work by machine on the smooth uplands. Frequent heavy showers in the first half of June made possible the completion of tobacco setting in all districts. The dry weather of the last decade of June, gave opportunity for much needed cultivation of corn and tobacco. The rains that followed early in July came when the crops were well cultivated and ready for maximum growth. Toward the end of July dry weather began adversely to affect tobacco in considerable areas, but the rains of early August restored growth. The excess warmth of August was an important factor in the development of the late crops. The dry weather of September favored cutting and housing of tobacco, but the unseasonable coolness of the last half of the month retarded curing. The rains of early October came when badly needed to condition land for seeding and to bring up the fall grains. This moisture also started pastures, but continued low temperature that extended through November soon stopped growth. The dry weather of November allowed corn to be gathered speedily, but led to water shortage for livestock in the uplands. Severe cold early in December deeply froze the scant supplies, but heavy rains near the middle of this month relieved the shortage. Deficient atmospheric moisture in November and the dry cold of early December hindered tobacco stripping and marketing, but the rains and mild temperature after the middle of December favored disposition of this crop.

The Weather By Months.

January.---Decidedly warm weather, especially in the southern and eastern counties, caused grains and grasses to make considerable growth. Rye reached a size for grazing, but continued saturation of the soil prevented its use. As the rains persisted tobacco became too soft to be placed in bulk, while impassable dirt roads and high water reduced deliveries.

FEBRUARY.---Much bottom land in the western part of the State remained covered with flood water during most of the month. Toward the end lighter precipitation and improving drainage permitted sowing of tobacco beds, but little progress could be made with plowing.

MARCH.—Drainage continued to improve and potato planting commenced near the middle. Most tobacco plantbeds were sown early in the month. Spring seeding was generally two to three weeks behind. Winter grains developed slowly and showed little evidence of winter injury.

APRIL.—Tobacco plants came up unevenly and about two weeks late. Progress with planting was largely confined to the dry and warm uplands. The showery weather favored the late seedings to clover and lespedeza, which replaced those killed in March.

MAY.—The accumulated deficiency in temperature during the first three weeks was practically balanced by the excess warmth of the last decade. Strawberries, damaged at first by rain, improved decidedly in quality. Early potatoes, insufficiently cultivated, were advanced too rapidly.

JUNE.—Favorable conditions for growth made up to a considerable extent for the delay in getting out the crops. Abundant moisture made the best oats crop for many years. Pastures continued exceptionally fine throughout the month.

JULY.—Ideal weather for harvest and threshing predominated. The northeastern, southeastern and some western districts received enough rain to keep crops growing. Acute moisture deficiencies developed in the central and some eastern sections. Abundant subsoil moisture assisted in maintaining growth.

AUGUST.—The rainfall in light to moderate showers favored tobacco rather than corn. The renewed growth resulting from the rains somewhat delayed tobacco ripening and cutting. Pastures and forage improved in most districts in the first half, but were needing rain at the end.

SEPTEMBER.—Late potatoes were seriously delayed by dry weather. Pastures deteriorated slowly toward the end. Corn dried so rapidly that cutting of early plantings was practically finished. Early sown grain came up well, but later seedings lacked sufficient moisture.

OCTOBER.—Abnormally cool weather reduced the growth of fall grains and grass. Killing frosts near the middle extensively damaged the backward potatoes, but were too late to affect the staple crops. It was generally too wet for corn gathering.

NOVEMBER.—Fall grains ceased to grow while yet undersized, but with stands and condition good. The soil moisture favored plowing which advanced rapidly. Corn gathering was completed on many farms, with ears well dried and safe for cribbing.

DECEMBER.—Widespread glaze from the 12th to 15th paralyzed traffic on roads. Temperatures much above normal in the last week started growth in pastures and grain fields. Because the ground was comparatively dry when deeply frozen, winter grains were not injured by lifting.

COMPARATIVE ANNUAL DATA FOR KENTUCKY.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	55.6	101	3	35.97	....	...	...	...	...
1890	57.1	101	4	58.82	....	...	...	...	...
1891	56.3	105	0	49.69	....	...	...	...	...
1892	55.3	101	— 6	44.25	....	...	...	...	...
1893	55.5	101	—22	44.71	....	...	...	...	...
1894	57.1	105	—12	34.81	....	...	...	...	...
1895	55.0	104	—18	38.47	....	...	156	103	104
1896	57.6	106	—12	44.68	....	94	151	111	104
1897	57.2	107	—16	46.72	8.1	111	168	97	100
1898	57.2	103	—12	52.38	12.5	103	153	110	102
1899	56.4	105	—30	46.38	24.6	112	155	105	106
1900	57.7	104	— 9	44.40	12.9	110	160	102	104
1901	55.3	112	—22	35.65	11.7	88	164	85	111
1902	56.5	107	— 3	44.35	14.0	102	162	91	112
1903	55.8	104	—16	41.16	12.9	106	170	87	108
1904	55.3	100	— 9	35.10	9.7	100	162	88	116
1905	55.8	106	—16	47.68	18.1	114	161	78	126
1906	57.0	100	—12	48.84	14.9	113	152	78	135
1907	56.1	102	—11	47.76	14.5	119	155	73	137
1908	57.7	104	2	41.94	9.5	109	166	82	115
1909	56.5	104	—14	51.41	10.0	108	158	82	125
1910	55.3	100	—20	50.67	30.6	111	168	74	123
1911	58.0	106	—16	46.77	6.6	117	155	67	143
1912	54.6	103	—20	47.93	27.0	108	165	74	127
1913	57.9	109	— 2	47.46	5.8	107	163	77	125
1914	56.3	109	—16	41.80	22.7	106	163	80	122
1915	56.2	102	0	51.52	14.4	114	160	93	122
1916	56.2	102	—14	45.49	23.9	106	174	87	106
1917	53.5	100	—21	46.01	42.8	106	155	91	119
1918	56.5	111	—20	40.64	24.9	106	159	87	119
1919	57.9	104	— 1	52.13	3.7	116	170	81	114
1920	55.5	100	— 6	46.50	10.1	104	154	81	131
1921	60.1	106	11	49.42	13.0	113	160	94	111
1922	58.5	103	1	44.43	3.0	119	170	87	108
1923	57.1	99	— 4	53.92	3.9	115	161	81	123
1924	55.0	103	— 9	42.68	6.3	105	169	79	118
1925	57.6	110	— 9	41.11	10.6	104	168	85	112
1926	56.1	107	—11	49.95	13.1	129	149	89	127
1927	57.8	103	— 3	53.45	10.5	123	157	88	120
1928	56.0	101	— 8	45.61	6.2	111	166	89	111
1929	56.2	101	—15	48.46	25.4	121	155	86	124
1930	57.6	114	—20	27.88	9.1	95	175	87	103
1931	59.0	106	— 9	41.98	4.6	114	165	77	123
1932	57.7	103	— 8	44.19	4.0	110	173	86	113
1933	58.4	106	— 9	50.61	6.9	115	154	86	125
1934	57.6	110	—19	37.14	11.8	100	171	90	104
1935	56.8	105	—14	57.40	13.3	123	151	91	123
1936	57.4	113	—25	37.94	20.4	97	170	93	103
1937	56.3	102	0	49.86	11.1	120	151	85	129
Period	56.7	114	—30	45.60	13.6	109	166	87	117

†49-year averages.

Climatological Data for the Year 1937.

Stations.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).							Number of days				Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall, unmelted.	With precip. of .01 in. or more.	Clear.	Pt. Cloudy.	Cloudy.	
WESTERN DIVISION.																				
Birmingham	Marshall	.....	.....	.....	.....	.....	.....	.....	2	53.56	16.53	Jan.	1.66	Mar.	.....	70	.....	.....	.....	.....
Calhoun	McLean	437	34	.....	96	Aug. 3	18	Jan. 16	35	.....	20.46	Jan.	1.46	Mar.	.....	.....	.....	.....	.....	.....
Earlington	Hopkins	420	48	58.0	98	Aug. 17	7	Dec. 11	48	60.08	22.97	Jan.	1.05	Mar.	11.1	124	183	56	126	sw.
Ford's Ferry	Crittenden	356	.....	.....	.....	.....	.....	.....	9	54.70	17.60	Jan.	0.91	Mar.	10.7	122	.....	.....	.....	.....
Greenville	Muhlenburg	519	21	56.0	96	Aug. 17†	2	Dec. 11	21	57.57	19.22	Jan.	1.63	Mar.	11.9	106	166	113	86	s.
Henderson	Hendersou	382	6	56.3	98	Aug. 2†	7	Dec. 6	25	57.76	21.00	Jan.	1.27	Mar.	7.6	127	135	141	89	n.
Hopkinsville	Christian	524	42	57.8	98	July 11	5	Dec. 11	42	58.01	21.86	Jan.	1.33	Feb.	4.2	115	195	99	71	s.
Lovelaceville	Ballard	445	9	56.7	100	Aug. 9†	3	Dec. 10	9	52.19	17.60	Jan.	1.71	Aug.	6.0	80	174	93	98	s.
Mayfield	Graves	361	29	57.8	98	Aug. 9†	5	Dec. 9	29	48.06	17.05	Jan.	1.13	Mar.	4.5	105	157	128	85	s.
Murray	Calloway	412	12	.....	.....	.....	8	Dec. 9	12	.....	19.54	Jan.	.....	.....	5.9	.....	.....	.....	.....	.....
Owensboro	Daviess	420	41	55.6	95	June 25	5	Dec. 6†	41	53.00	17.59	Jan.	0.69	Mar.	6.0	106	164	49	152	s.
Owensboro Dam 46	Daviess	404	.....	.....	.....	.....	.....	.....	10	49.21	16.14	Jan.	0.67	Mar.	5.0	132	.....	.....	.....	.....
Paducah	McCracken	341	31	.....	98	Aug. 17†	6	Dec. 9†	56	50.81	17.53	Jan.	1.38	Mar.	5.0	128	177	71	117	.....
Princeton	Caldwell	529	31	57.8	98	June 1†	6	Dec. 9†	33	57.91	19.58	Jan.	1.47	Mar.	8.0	131	123	123	119	sw.
Rumsey, Lock 2	McLean	384	21	.....	.....	.....	.....	.....	21	55.84	18.42	Jan.	1.19	Mar.	7.0	139	.....	.....	.....	.....
Russellville	Logan	580	28	56.5	100	Aug. 4	5	Dec. 9	26	53.95	18.57	Jan.	1.64	July	.....	109	.....	.....	.....	s.
Uniontown Dam 49	Union	357	.....	.....	.....	.....	.....	.....	9	53.36	17.39	Jan.	0.72	Mar.	5.3	132	.....	.....	.....	.....
CENTRAL DIVISION.																				
Addison Dam 45	Breckinridge	352	.....	.....	.....	.....	.....	.....	10	49.19	19.37	Jan.	0.90	Mar.	5.3	130	.....	.....	.....	.....
Anchorage	Jefferson	700	38	54.1	93	May 31†	4	Dec. 11	37	57.59	20.48	Jan.	1.20	Mar.	18.4	100	.....	.....	.....	sw.
Bowling Green	Warren	500	49	58.6	102	July 15†	9	Dec. 9	55	56.71	20.70	Jan.	1.27	Feb.	9.2	114	136	105	124	w.
Brownsville, Lock 6	Edmonson	410	.....	.....	.....	.....	.....	.....	21	57.03	19.07	Jan.	1.28	Sept.	1.7	143	.....	.....	.....	.....
Burnside	Pulaski	705	.....	.....	.....	.....	.....	.....	47	53.30	15.12	Jan.	1.69	Mar.	6.0	141	.....	.....	.....	.....
Carrollton, Lock 1	Carroll	480	.....	.....	.....	.....	.....	.....	39	45.99	16.10	Jan.	0.45	Mar.	.....	81	.....	.....	.....	.....
Cold Spring	Campbell	489	.....	.....	.....	.....	.....	.....	11	43.32	14.60	Jan.	1.80	Mar.	12.0	128	.....	.....	.....	.....
Danville	Boyle	955	5	55.5	97	July 16	7	Dec. 9	5	47.05	16.06	Jan.	0.77	Sept.	10.6	126	134	97	134	sw.
Dix Dam, Burglu	Mercer	770	14	57.2	97	Aug 4	9	Dec. 9†	14	46.22	15.89	Jan.	0.87	Sept.	.....	119	139	107	119	s.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	2	49.63	14.82	Jan.	1.18	Mar.	.....	.....	.....	.....	.....	.....
Eubank	Pulaski	1177	44	.....	98	Aug. 4	0	Dec. 1	44	.....	14.62	Jan.	0.59	Mar.	.....	.....	.....	.....	.....	.....
Frankfort	Franklin	504	46	55.8	97	July 10†	5	Dec. 11	47	49.60	16.77	Jan.	1.14	Mar.	9.3	127	154	69	142	w.
Gest, Lock 3	Henry	490	.....	.....	.....	.....	.....	.....	52	51.51	18.36	Jan.	0.70	Sept.	10.3	124	.....	.....	.....	.....
Glasgow	Barren	780	12	.....	98	June 1†	.....	.....	12	.....	20.16	Jan.	1.28	Mar.	.....	.....	.....	.....	.....	.....
Grant	Boone	506	.....	.....	.....	.....	.....	.....	13	49.70	15.57	Jan.	1.13	Feb.	13.0	105	.....	.....	.....	.....
Greensburg	Green	581	45	56.4	100	Aug. 4	2	Dec. 9†	49	48.58	18.07	Jan.	1.65	Mar.	3.2	126	56	37	272	s.
High Bridge, Lock 7	Jessamine	544	.....	.....	.....	.....	.....	.....	36	42.29	13.78	Jan.	0.78	Sept.	8.2	141	.....	.....	.....	.....
Irvington	Breckinridge	646	40	56.4	94	July 15	9	Dec. 7	40	46.91	18.12	Jan.	0.76	July	8.5	106	163	60	142	sw.
Lancaster	Garrard	1032	.....	.....	.....	.....	.....	.....	12	.....	16.87	Jan.	0.79	Sept.	.....	.....	.....	.....	.....	.....
Leitchfield	Grayson	635	42	56.4	97	May 31	6	Dec. 7†	42	56.71	21.85	Jan.	1.48	Mar.	7.0	135	121	131	113	sw.
Lexington	Fayette	989	54	55.0	98	Aug. 3	6	Dec. 10	55	50.63	15.10	Jan.	1.59	Mar.	17.2	149	.....	.....	.....	.....
Little Hickman, Lock 8	Jessamine	560	.....	.....	.....	.....	.....	.....	27	42.76	14.55	Jan.	1.22	Sept.	6.0	97	.....	.....	.....	.....
Lockport, Lock 2	Henry	488	.....	.....	.....	.....	.....	.....	28	56.24	22.72	Jan.	0.48	Sept.	9.9	99	.....	.....	.....	.....
LOUISVILLE	Jefferson	525	65	56.0	94	May 31	9	Dec. 6	65	49.63	19.17	Jan.	0.76	Mar.	12.2	126	121	104	140	n.
Bowman Field	Jefferson	558	1	.....	94	July 10†	9	Dec. 7†	1	.....	21.62	Jan.	2.03	Mar.	4.2	144	155	95	115	sw.
Mammoth Cave	Edmonson	.....	3	54.9	96	Aug. 8	3	Dec. 10†	3	58.41	21.62	Jan.	2.03	Mar.	4.2	144	155	95	115	sw.
St. John	Hardin	777	42	57.7	96	May 31†	5	Dec. 11	42	55.70	22.46	Jan.	1.83	Mar.	5.2	112	217	60	88	.....
Salvisa, Lock 6	Mercer	520	.....	.....	.....	.....	.....	.....	24	46.69	15.49	Jan.	1.40	Nov.	.....	103	.....	.....	.....	.....
Shelbyville	Shelby	825	49	54.9	98	Aug. 18	6	Dec. 9†	49	58.78	20.05	Jan.	0.63	Sept.	17.5	151	139	8	218	n.
Shepherdsville	Bullitt	500	.....	.....	.....	.....	.....	.....	2	54.97	17.59	Jan.	0.68	Mar.	9.7	107	143	73	149	sw.
Smith's Grove	Warren	607	1	.....	.....	.....	6	Dec. 10†	1	.....	.....	Jan.	.....	.....	.....	.....	.....	.....	.....	.....
Stearns	McCreary	1400	2	55.8	94	Aug. 4	4	Dec. 9†	2	52.68	12.48	Jan.	1.32	Sept.	5.0	150	.....	.....	.....	.....
Tyrone, Lock 5	Anderson	524	.....	.....	.....	.....	.....	.....	20	47.92	15.50	Jan.	1.27	Mar.	13.1	140	.....	.....	.....	.....
Williamstown	Grant	943	35	55.0	98	July 10†	6	Dec. 9	35	50.63	16.87	Jan.	1.21	Mar.	3.0	118	191	53	121	w.
Woodbury, Lock 4	Butler	504	.....	.....	.....	.....	.....	.....	21	54.12	19.21	Jan.	1.35	Feb.	4.6	120	.....	.....	.....	.....
EASTERN DIVISION.																				
Annville	Jackson	.....	.....	.....	.....	.....	.....	.....	7	48.18	13.34	Jan.	1.53	Nov.	11.9	145	85	127	153	sw.
Ashland	Boyd	534	19	55.6	98	Aug. 18†	5	Dec. 9	24	38.33	11.57	Jan.	0.99	Aug.	13.5	145	139	69	157	w.
Berea	Madison	1070	36	56.6	96	Aug. 4	6	Dec. 9†	36	45.58	14.91	Jan.	0.97	July	8.7	153	136	75	144	sw.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	28	39.20	12.80	Jan.	1.00	Mar.	8.7	124	.....	.....	.....	.....
Cumberland	Harlan	1440	1	56.1	92	July 9†	2	Dec. 11	1	45.91	9.65	Jan.	1.20	Sept.	5.7	109	.....	.....	.....	w.
Cynthiana	Harrison	684	.....	.....	.....	.....	.....	.....	21	.....	.....	.....	0.65	Mar.	.....	.....	.....	.....	.....	.....
Falmouth	Pendleton	600	.....	.....	.....	.....	.....	.....	49	38.66	10.30	Jan.	1.12	Mar.	14.4	137	.....	.....	.....	.....
Farmers	Rowan	668	31	54.7	95	July 10†	1	Dec. 12	32	43.62	12.40	Jan.	0.95	Sept.	.....	101	140	82	143	e.
Flemingsburg	Fleming	870	.....	.....	.....	.....	.....	.....	13	42.07	13.64	Jan.	0.76	Sept.	.....	107	.....	.....	.....	.....
Ford, Lock 10	Clark	593	.....	.....	.....	.....	.....	.....	22	45.54	13.98	Jan.	0.95	Sept.	6.2	124	.....	.....	.....	.....
Greenup, Dam 30	Greenup	540	.....	.....	.....	.....	.....	.....	18	.....	.....	.....	0.74	Nov.	.....	.....	.....	.....	.....	.....
Hazard	Perry	869	.....	.....	.....	.....	.....	.....	14	45.64	9.69	Jan.	0.77	Sept.	.....	113	.....	.....	.....	.....
Heidelberg, Lock 14	Lee	663	3	55.8	97	Aug. 4	0	Dec. 9	21	48.79	12.63	Jan.	0.54	Sept.	9.5	134	93	86	186	sw.
Jackson	Breathitt	776	.....	.....	.....	.....	.....	.....	3	49.67	12.23	Jan.	1.19	Nov.	13.5	98	.....	.....	.....	.....
Jenkins	Bell	1566	.....	.....	.....	.....	.....	.....	13	43.65	8.74	Jan.	0.83	Nov.	12.0	121	.....	.....	.....	.....
Louisa	Lawrence	584	.....	.....	.....	.....	.....	.....	34	39.37	10.98	Jan.	0.87	Nov.	.....	102	.....	.....	.....	.....
Maysville	Mason	524	42	54.8	96	Sept. 2	5	Dec. 9	42	49.02	14.71	Jan.	0.80	Sept.	23.8	141	80	152	133	sw.
Middlesboro	Bell	1128	42	.....	95	July 10	5	Dec. 11	47	52.33	11.94	Jan.	1.60	Sept.	15.0	115	.....	.....	.....	.....
Mount Sterling	Montgomery	930	48	.....	97	Aug. 4	0	Dec. 9	48	.....	11.97	Jan.	1.05	Sept.	7.2	.....	.....	.....	.....	.....
Oneida	Clay	.....	.....	.....	.....	.....	.....	.....	1	52.60	12.09	Jan.	1.45	Nov.	.....	96	.....	.....	.....	.....
Oneonta, Dam 35	Campbell	497	.....	.....	.....	.....	.....	.....	16	44.45	15.39	Jan.	0.68	Mar.	26.3	128	.....	.....	.....	.....
Paintsville	Johnson	620	.....	.....	.....	.....	.....	.....	4	41.98	9.96	Jan.	1.00	Nov.	6.6	146	.....	.....	.....	.....
Pikeville	Pike	636	2	.....	99	Aug. 4	9	Dec. 11	37	.....	8.39	Jan.	0.82	Nov.	6.0	.....	.....	.....	.....	.....
Pippapass	Knott	1035	4	.....	96	Aug 4	7	Dec. 9†	4	47.49	8.68	Jan.	1.12	Nov	8.4	156	104	87	174	.....
Quicksand	Breathitt	732	11	54.9	100	Aug. 11	1	Dec. 10	11	.....	11.94	Jan.	1.42	Mar.	.....	.....	.....	.....	.....	.....
Ravenna, Lock 12	Estill	631	.....	.....	.....	.....	.....	.....	20	44.77	13.56	Jan.	0.96	Mar.	.....	118	.....	.....	.....	.....
Richmond	Madison	926	48	56.4	94	Aug. 20	5	Dec. 9	47	48.65	15.40	Jan.	1.65	Nov.	.....	123	.....	.....	.....	.....
Valley View, Lock 9	Madison	571	.....	.....	.....	.....	.....	.....	24	45.30	14.88	Jan.	1.41	July	8.4	121	.....	.....	.....	.....
Vanceburg, Dam 32	Lewis	525	.....	.....	.....	.....	.....	.....	23	39.77	12.66	Jan.	0.64	Mar.	7.0	135	.....	.....	.....	.....
Williamsburg	Whitley	939	42	57.8	95	July 15	5	Dec. 11	43	.....	12.05	Jan.	1.27	Nov.	7.3	.....	185	71	109	.....
Willow, Lock 13	Lee	646	.....	.....	.....	.....	.....	.....	21	49.91	14.37	Jan.	1.11	Sept.	4.8	115	.....	.....	.....	.....
Winchester	Clark	961	1	.....	98	Aug 4	5	Dec. 9	1	.....	.....	.....	0.59	Sept.	.....	.....	.....	.....	.....	.....

All temperature data are taken from self-registering thermometers.
Reference letters, , b, c, appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

†Also on other dates.

Monthly and Annual Precipitation for the Year 1937, with Departures from the Normal.

Station.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure
WESTERN DIVISION.																										
Birmingham	16.53	.....	2.49	.....	1.66	.....	5.47	.....	4.40	.....	4.20	.....	2.91	.....	4.22	.....	2.29	.....	5.96	.....	1.76	.....	2.17	.....	53.56	....
Calhoun	20.46	+15.59	2.47	−0.85	1.45	−3.02	4.85	+0.62	8.69	+4.71	4.82	+0.96	4.15	+0.65	3.68	−0.76	1.52	−1.56	.....	.....	.....	.....	.....	.....	.....	.....
Earlington	22.97	+17.98	2.61	−0.92	1.05	−3.53	4.92	+0.82	6.84	+1.73	4.19	+0.37	3.45	0.00	1.17	−2.08	2.90	+0.63	6.50	+3.20	1.87	−1.77	2.63	−1.64	60.08	+14.42
Ford's Ferry	17.60	.....	2.03	.....	0.91	.....	6.02	.....	5.33	.....	5.83	.....	4.50	.....	0.96	.....	1.48	.....	6.69	.....	1.52	.....	2.41	.....	54.77	.....
Greenville	19.22	+14.65	1.77	−1.44	1.63	−2.76	4.56	+0.20	6.87	+2.12	3.85	−0.31	4.98	+1.25	2.90	−0.57	3.66	+1.08	4.07	+0.35	2.18	−1.41	2.41	−1.62	57.57	+11.63
Henderson	21.09	+17.35	1.80	−0.86	1.27	−4.14	4.10	+0.60	6.35	+2.42	4.62	+0.65	3.54	+0.85	1.60	−1.72	1.85	−1.61	6.53	+3.35	1.52	−2.20	3.77	−0.87	57.76	+13.41
Hopkinsville	21.86	+16.84	1.83	−2.29	1.70	−3.17	4.73	+0.42	7.60	+3.48	2.66	−1.83	3.67	−0.16	2.10	−1.14	2.25	−0.91	4.31	+0.88	2.47	−1.55	3.43	−1.46	58.01	+ 8.52
Lovelaceville	17.60	.....	2.25	.....	5.68	.....	3.80	+0.36	2.74	−1.34	2.11	.....	1.71	−1.87	2.70	−1.51	5.57	+2.65	1.86	−1.60	4.45	+0.29	52.19	.....
Mayfield	17.05	+13.89	1.35	−2.03	1.13	−2.90	4.44	+0.18	3.93	−0.05	4.09	+0.20	2.88	−0.66	1.42	−2.29	1.93	−1.08	4.94	+1.68	1.88	−2.00	3.60	−1.52	48.06	+ 1.74
Murray	19.54	+14.01	1.76	−1.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.27	+1.86	1.63	−1.74	3.72	−0.57	.....	.....
Owensboro	17.59	+13.32	1.50	−1.35	0.69	−3.58	4.06	+0.10	6.46	+2.53	4.98	+1.07	3.18	+0.15	3.69	+0.25	2.13	−1.11	5.13	+1.68	1.06	−2.06	2.53	−1.21	53.60	+ 9.59
Owensboro No. 2	16.14	+10.82	1.72	−0.90	0.67	−3.10	3.45	−0.03	6.58	+2.74	4.24	+0.12	3.03	+0.72	3.26	+0.16	1.65	−1.88	4.49	+1.56	1.13	−1.98	2.35	−0.82	49.21	+ 8.23
Paducah	17.63	+12.56	2.11	−1.20	1.58	−3.13	6.25	+1.83	3.25	−0.68	2.80	−1.42	3.23	−0.25	1.74	−2.00	2.03	−1.24	5.51	+2.19	1.89	−1.95	3.09	−1.10	50.81	+ 3.61
Princeton	19.58	+14.61	2.45	−1.04	1.47	−2.63	5.31	+0.93	5.35	+1.28	4.05	0.05	3.76	−0.08	2.16	−1.44	2.34	−1.00	6.02	+2.85	2.15	−1.10	3.23	−1.13	57.91	+11.15
Ramsey, Lock No. 2 †	18.42	+13.78	2.24	−0.98	1.19	−3.31	4.15	+0.01	7.60	+2.86	5.20	+1.59	4.19	+1.05	3.55	−0.67	1.37	−1.78	4.14	+0.91	1.75	−1.77	2.61	−1.75	65.84	+10.50
Russellville	18.57	+13.33	1.89	−1.59	1.89	−2.88	4.30	−0.30	3.66	−0.21	5.59	+1.95	1.64	−2.63	4.05	+0.94	2.30	−0.77	3.68	+0.20	2.38	−0.90	4.60	−0.62	53.95	+ 7.76
Uniontown	17.39	+12.37	1.92	−0.40	0.72	−3.21	4.56	+1.11	3.70	+0.52	4.16	+0.43	6.05	+2.85	3.18	−0.04	1.74	−2.96	6.05	+3.11	1.19	−1.57	2.70	+0.40	53.36	+11.86
CENTRAL DIVISION.																										
Addison	19.37	+13.69	2.03	−0.63	0.90	−3.06	2.83	−0.81	5.05	+1.03	4.01	+0.11	1.83	+1.75	2.67	−0.47	1.57	−1.48	5.27	+2.20	1.44	−1.36	2.67	−0.94	49.19	+ 6.58
Anchorage	20.48	+16.31	1.68	−1.18	1.20	−3.06	4.83	+1.03	5.16	+1.49	5.25	+1.68	1.42	−2.68	4.90	+1.25	1.58	−1.14	5.08	+2.05	1.52	−1.52	4.14	+0.28	57.50	+14.55
Bowling Green	20.70	+15.48	1.27	−2.35	1.97	−3.13	4.89	+0.05	5.31	+1.12	3.21	−0.85	1.99	−1.90	2.92	−0.71	2.46	−0.95	4.87	+1.66	3.42	−0.22	4.20	−0.52	56.71	+ 7.61
Brownsville, Lock No 6†	19.07	+13.53	2.21	−1.76	2.16	−3.07	2.61	−1.75	4.73	+0.79	5.87	+1.63	3.44	+0.04	4.95	+0.70	1.28	−1.94	4.15	+1.13	3.27	−0.59	3.27	1.47	57.03	+ 7.26
Burnside	15.12	+10.31	2.95	−0.35	1.69	−3.52	3.47	−0.73	3.83	−0.67	4.73	+0.64	3.02	−1.49	1.94	−2.28	4.71	+1.09	5.85	+2.67	1.75	−1.71	4.24	−0.61	53.80	+ 2.85
Carrollton, Lock No. 1	16.10	+12.88	1.35	−1.25	0.46	−3.87	3.38	−0.32	3.58	−0.30	8.02	+0.66	3.61	+0.26	3.81	+0.01	2.63	−0.4	3.04	+0.16	1.30	−1.63	2.86	−0.28	45.89	− 5.20
Cold Spring, Dam 36	14.60	+11.32	1.61	−0.78	1.30	−2.25	2.96	−0.70	3.39	−0.46	3.70	−0.37	2.65	−1.89	2.21	−1.43	3.45	−0.44	2.96	−0.40	1.48	−1.76	3.64	−0.81	40.32	− 2.51
Danville	16.06	+12.88	2.23	−0.96	1.69	−2.22	3.90	+0 07	3 45	−0.66	3.81	−0.10	3.10	−1.56	5.04	+1.85	0.77	−2.78	3.65	+1.73	1.27	−1.74	2.63	−1.76	47.05	+ 3.94
Dix Dam, Burgin	15.89	+11.63	2.32	−0.66	1.79	−1.91	3.92	+0.82	3.02	−0.46	3.54	−0.80	3.28	−0.77	4.80	+1.14	0.87	−2.47	3.06	+0.06	1.22	−1.91	2.61	−1.19	46.22	+ 3.52
Eadsville	14.82	.....	2.74	.....	1.18	.....	4.43	.....	6.03	.....	.....	.....	2.92	.....	2.99	.....	.....	.....	.....	.....	1.26	.....	.....	.....	.....	.....
Embark	14.62	+10.09	2.08	−1.31	0.59	−4.12	3.15	−0.79	3.10	−1.35	.....	.....	2.56	−1.66	4.57	+0.29	1.90	−1.60	5.29	+2.07	.....	.....	1.51	−2.35	.....	.....
Frankfort	16.77	+12.53	2.17	−0.97	1.14	−3.24	4.24	+0.48	4.19	+0 91	3.74	−0.37	3.69	−0.87	3.55	−0.15	1.46	−1.30	3.88	−1.17	1.79	−1.26	3.64	−0.76	49.60	+ 6.77
Gest, Lock No. 3	18.36	+14.31	1.52	−1.72	1.69	−2.87	4.82	+1.08	4.27	+0.97	4.35	+0.34	3.87	−0.09	3.44	−0.12	0.76	−2.48	2.98	+0 07	2.00	−1.24	3.51	−0.28	51.51	+ 8.21
Glasgow	20.16	.....	1.84	−1.69	1.28	−4.51	5.45	+1.16	3.88	+0.25	5.38	+1.76	6.71	+2.18	2.57	−1.49	4.25	+1.00	3.94	+1.28	3.77	−0.48	.....	.....	.....	.....
Grant, Dam 3	15.57	+12.48	1.13	−1.08	1.23	−1.79	2.51	−0.83	5.30	+2.21	2.77	−0.96	2.56	−1.01	1.84	−1.45	3.23	−0.28	3.41	+0.96	1.49	−1.28	2.66	+0.06	43.70	+ 7.00
Greensburg	18.07	+12.81	1.95	−1.56	1.65	−3.42	2.91	−1.15	3.68	−1.30	4.72	+0.29	2.66	−1.18	3.24	−0.94	2.08	−1.21	4.65	+0.66	1.95	−1.65	2.44	−2.08	48.58	− 0.83
High Bridge, Lock No 7.	13.78	+ 9.16	2.53	−0.55	1.33	−2.97	3.76	+0 25	3.19	−0 47	3.71	−0.33	2.58	−1.47	4.52	+0.74	0.78	−2.12	3.89	+1.04	1.50	−1.68	2.72	−1.31	43.29	− 0.71
Irvington	18.12	+13.71	1.51	−1.68	1.19	−3.28	3.66	−0.30	5.14	+1.41	5.20	+1.19	0.76	−2.31	2.26	−1.24	1.56	−1.34	3.34	+0.31	1.22	−2.03	2.95	−0.58	46.51	+ 3.61
Lancaster	16.87	+12.56	1.95	−1.00	1.68	−3.17	.....	.....	2.86	−1.55	4.25	−0.96	4.08	−0.31	4.48	+0.44	0.79	−2.14	3.76	+0.44	0.55	−2.27	2.70	−0.46	.....	.....
Leitchfield	21.85	+16.86	2.28	−1.10	1.48	−2.94	4.14	−0.22	4.09	−0.08	3.89	−0.20	3.04	−0 62	3.61	0.11	1.78	−1.69	4.97	+1.51	1.90	−2.04	3.68	−1.06	56.71	+ 8.31
Lexington	15.10	+10.92	2.77	−0.85	1.79	−2.78	5.32	+1.82	3.28	−0.53	5.80	+1.75	3.17	−0.48	3.52	+0.07	0.87	−2.20	3.96	+1.37	1.74	−1.60	3.51	−0.26	60.63	+ 7.28
Little Hickman, Lock 8.	14.55	+10.14	2.17	−1.19	2.08	−2.28	3.30	+0.60	2.50	−1.28	4.24	−0.10	2.65	−1.11	2.78	−1.23	1.22	−1.98	3.36	+0.54	1.82	−1.52	1.98	−1.70	42.76	− 1.63
Lockport, Lock No. 2	22.72	+18.70	1.88	−0.99	0.68	−3.76	5.67	+1.94	5.64	+2.18	4.69	+0.31	3.20	−0.35	2.99	−0.27	0.48	−2.60	3.06	+0.20	2.14	−0.60	3.54	−0.14	56.24	+13.02
LOUISVILLE	19.17	+15.17	1.65	−1.90	0.76	−3.63	4.06	+0.18	3.84	+0.12	4.14	+0.32	0.93	−2.77	4.27	+0.86	1.09	−1.69	4.43	+1.83	1.66	−1.46	3.58	−0.16	49.63	+ 6.38
Do. Bowman Field	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.20	.....	5.45	.....	0.71	.....	3.47	.....	1.49	.....	3.54	.....	.....	.....
Mammoth Cave	21.02	.....	2.42	.....	2.03	.....	4.59	.....	3.61	.....	3.78	.....	3.73	.....	4.55	.....	2.33	.....	3.94	.....	2.61	.....	3.99	.....	58.41	.....
Munfordville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.91	.....	4.69	.....	2.16	−0.43	4.29	.....	2.65	−0.49	2.43	−1.66	.....	.....
St. John	22.46	+17.70	1.38	−2.24	1.33	−3.31	3.96	−0.28	5.17	+1.10	4.60	+0.34	2.10	−1.23	3.81	−0.62	3.10	+0.05	3.69	+0.42	1.20	−2.25	3.20	−1.22	55.70	+ 8.46
Salvisa, Lock No. 6	15 49	+10.82	2.25	−0.89	1.42	−2.76	4.16	+0.50	3.83	+0.32	4 97	+0.55	1.66	−2.14	3.75	+0.21	1.94	−1.12	3.87	+1.09	1.40	−1.90	1.95	−2.45	46.69	+ 2.23
Shelbyville	20.05	+15 50	3.10	−0.30	1.96	−2.79	5.25	+1.34	4.16	+0.36	5.34	+1.33	3.66	−0.17	5.57	+1.88	0.65	−2.21	3.64	+0.72	1.53	−1.72	3.89	−0.29	58.78	+18.65
Shepherdsville	17.59	.....	2.35	.....	0.68	.....	4.12	.....	6.77	.....	7.09	.....	1.39	.....	4.09	.....	2.57	.....	4.17	.....	1.22	.....	2.98	.....	54.97	.....
Smith's Grove	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.52	.....	2.71	.....	5.24	.....	3.73	.....	3.96	.....	3.05	.....	3.44	.....	.....	.....
Stearns	12.48	.....	4.10	.....	1.42	.....	3.68	.....	4.43	.....	5.36	.....	4.82	.....	6.12	.....	1.32	.....	3.96	.....	1.71	.....	3.24	.....	62.08	.....
Tyrone, Lock No. 5	15.50	+11 06	2.39	−0.71	1.27	−2.38	4.84	+0 85	3.46	−0.04	5.38	+0.81	1.56	−2.62	3.94	−0.02	2.15	−1.14	3.43	+0.45	1.69	−1.20	2.31	−1.78	47.92	+ 3.28
Williamstown	16.97	+13.11	2.55	−0.16	1.21	−2.83	4.94	+1.50	3.75	+0.11	4.01	+0.38	3.10	−0.46	3.53	−0.20	1.54	−1.09	2.82	−0.17	2.26	−0.66	3.95	+0.41	50.63	+ 9.94
Woodbury, Lock No. 4†	19.21	+14.05	1.35	−2.16	1.59	−3.05	3.96	−0.17	3.91	+0.28	3.92	−0.48	4.39	+0.92	3.16	−0.67	3.21	+0.51	4.05	+1.02	2.50	−0.94	2.88	−1.34	54.12	+ 7.97
EASTERN DIVISION.																										
Annville	13.34	.....	2.55	.....	1.72	.....	3.61	.....	2.85	.....	2.76	.....	3 26	.....	4.69	.....	3 60	.....	5.36	.....	1.58	.....	2.91	.....	48.18	.....
Ashland	11.57	+ 7.51	3.05	−0.08	1.85	−2.47	2.86	−1.04	2.82	−1.24	4 55	+0.83	2.72	−1.47	0.99	−2.78	1.70	−0.74	2.81	+0.06	1.53	−1.57	2.58	−1.27	38.83	− 4.71
Berea	14.91	+10.06	1.71	−1.48	1.59	−3.49	5.68	+2.08	2.16	−1.88	3.91	−0.59	0.97	−3.87	5.65	+1.44	1.29	−1.65	3.16	+0.68	1.70	−1.64	2.94	−1.52	45.58	− 2.81
College Hill, Lock No.12	12.80	+ 7.82	1.74	−1.19	1.00	−3.58	4.80	+1.28	2.27	−1.67	4.20	+0 12	1.15	−2.91	2.89	−1.21	1.30	−1.52	3.64	+0 69	1.25	−1.65	2.43	−1.55	39.20	− 4.98
Cumberland	9.65	.....	4.43	.....	2.38	.....	2.85	.....	2.35	.....	4.49	.....	3.08	.....	4.37	.....	1.20	.....	6.70	.....	2.24	.....	2.19	.....	45.91	.....
Cynthiana	.....	.....	2.68	−0.38	0.65	−3.55	5.00	+1.84	2.40	−1.01	2.62	−0.75	3.03	−0.39	3.62	−0.21	1.50	−2.29	2.57	−0.40	0.75	−2.28	3.02	−0.25	.....	.....
Falmouth	10.30	+ 6.29	2.03	−0.96	1.12	−2.97	4.01	+0.33	3.16	−0.87	3.47	−0.61	2.33	−1.52	1.98	−2.00	1.83	−0.79	2.52	−0.09	1.43	−1.52	4.48	+0.86	38.66	− 8.15
Farmers	12.40	+ 8.06	2.58	−0.52	1.31	−3.16	5.17	+1.47	2.95	−0.97	5.01	+0.71	2.73	−1.61	4.37	−0 07	0.96	−1.77	3.78	+0.82	1.17	−1.82	1.25	−2.61	43 62	− 1 51
Flemingsburg	13.64	+ 9.21	2.54	−0.55	1.45	−2.83	4.57	+0.68	2.81	−0.80	3.83	−0.61	1.31	−2.38	2.42	−2.44	0.76	−2.59	3.27	−0.04	1.52	−1.86	3.94	+0.54	42.07	− 3.72
Ford, Lock No. 10	13.98	+ 9.71	2.50	−0.42	1.80	−2.61	5.90	+2.05	2.60	−0.60	5.80	+1.99	3.17	−1.63	1.93	+2.41	1.36	−1.67	3.34	+0.75	1.53	−1.83	2.24	−1.48	45.54	+ 2.05
Greenup, Dam 30	.....	.....	3.89	+1.06	1.22	−2.46	2.92	−0.57	2.40	−0.91	3.26	−0.48	3.15	−1.20	2.45	−1.04	0.88	−1.60	2.52	+1.86	0.74	−2.28	2.98	−0.31	.....	.....
Hazard	9.69	+ 6.47	2.74	−0.72	2.10	−2 10	3.73	+0.44	2.97	−2.14	7.33	+3.91	4.01	−0.03	3.80	−0.21	0.77	−2.43	5.49	+2.45	1.18	−1.87	1.83	−2.89	45.64	− 0.12
Heidelberg, Lock No 14	12 63	+ 8.37	2.77	−0.29	2.05	−2.70	5.28	+1.96	3.77	−0 21	6.02	+1.84	2.88	−1.90	4.85	+0.93	0.54	−2.60	4.29	+1.17	0.98	−1.93	2.73	−0.93	48 79	+ 3.71
Jackson	12.23	.....	3.35	.....	2.51	.....	5.54	.....	1.93	.....	5.41	.....	3.81	.....	3.47	.....	1.23	.....	5.21	.....	1.19	.....	3.73	.....	49.67	.....
Jenkins	8.74	+ 5.21	2.70	+0.88	1.82	−2.93	3.63	−0.21	1.78	−2.59	5.61	+1.60	4.12	−0.27	1.70	−3.86	1.87	−1.07	5.55	+3.44	0.85	−2.87	2.28	−1.40	43.66	− 2.41
Louisa	10.98	+ 7.16	2.91	−0.15	1.47	−2.76	3.43	+0.09	2.66	−1.20	4.42	−0.34	2.42	−1.18	3.17	−0.99	1.07	−1.52	3.52	+0.65	0.87	−1.83	2.46	−1.19	39.37	− 2.91
Maysville	14.71	+10.61	3.85	+0.75	1.39	−2.85	4.22	+0.65	3.27	−0.44	4.08	+0.08	4.95	+0.63	4.10	+0.20	0.80	−2.09	2.57	−0.09	1.46	−1.58	3.62	−0.10	49.02	− 5.71
Middlesboro	11.94	+ 7.32	4.19	+0.17	2.14	−4.10	3.48	−1.00	4.65	+0.68	6.59	+1.97	3.25	−0.65	5.58	+0.97	1.60	−1.58	4.06	+1 67	1.74	−1.78	2.56	−2.43	52.33	+ 1.19
Mount Sterling	11.97	+ 7.10	2.77	−0.84	1.79	−3.39	5.68	+1.57	2.70	−1.95	4.51	−0.14	2.13	−2.70	3.30	−0.87	1.05	−2.13	.....	.....	.....	.....	2.85	−1.57	.....	.....
Oneida	12.09	.....	3.18	.....	1.96	.....	4.48	.....	2.97	.....	4.88	.....	4.83	.....	4.86	.....	4.45	.....	5.57	.....	1.45	.....	2.93	.....	52.60	.....
Owenton, Dam No. 35	15.39	+11.91	1.67	−0.96	0.68	−3.13	2.89	−1.14	3.11	−0.84	3.75	−0.58	3.13	−1.12	2.37	−2.07	4.50	+1.21	2.57	+0.15	1.14	−1.77	3.52	−0.09	44.45	+ 2.12
Paintsville	9.96	.....	2.76	.....	1.72	.....	5.08	.....	2.18	.....	5.46	.....	2.43	.....	3.22	.....	1.61	.....	4.27	.....	1.00	.....	2.29	.....	41.98	.....
Pikeville	8.39	+ 4.61	3.75	+0.61	.....	.....	8.88	+0.30	2.65	−0.89	4.75	+0.68	3.97	−0.25	3.68	−0.34	2 32	−0.64	5.48	+2.57	0.82	−2.14	1.85	−1.67	.....	.....
Pippapass	8.68	.....	3.27	.....	1.74	.....	3.82	.....	3.17	.....	5.46	.....	4.37	.....	4.10	.....	2.10	.....	7.39	.....	1.12	.....	2.27	.....	47.49	.....
Quicksand	11.54	+ 8.05	2.80	−0.61	1.42	−4.45	5.90	+1.67	2.48	−2.66	4.71	+0.64	3.74	−1.69	5.10	+0.59	1.78	−1.07	5.01	+1.84	1.92	−1.96	.....	.....	.....	.....
Ravenna, Lock No. 12	13.56	+ 9.98	1.62	−1.45	0.96	−3.00	5.18	+2.07	2.52	−1.40	4.46	−0 05	3.73	−0.84	3.88	−0.81	2.22	−1.34	5.83	+3.50	1.76	−1.65	4.17	−0.68	44.77	− 0.83
Richmond	15.40	+10.99	1.85	−1.33	1 70	−2.69	5.20	+1.61	2.77	−1.07	5.73	+1.65	2.10	−1.92	3.40	−0.56	2.05	−0.90	8.65	+0.68	1.65	−1.64	2.85	−1.67	48.05	+ 3.15
Valley View, Lock No. 9	14.48	+10.26	2.55	−0.82	1.66	−3.02	4 84	+1.56	3.76	−0.25	5.62	+0.82	1.41	−2.68	3.27	−0.73	1.48	−1.93	2.41	+0.59	1.54	−1.92	2.48	−1.48	45.30	− 1.18
Vanceburg, Dam No. 32	12.66	+ 8.54	3.35	−0.08	0.64	−4.00	3.43	−0.31	3.11	−0.72	2.51	−1.46	2.02	−2.70	2.71	−0.77	0.72	−1.92	5.85	+0.85	1.21	−1.67	3.66	−0.24	39.77	− 4.48
Williamsburg	12.05	+ 7.63	2.68	+0.47	1 68	−2.97	4.58	+0.33	9.66	+5.57	.....	.....	5.58	+1.24	5.93	+1.33	1.64	−1.88	4.81	+1.57	1.27	−2 68	2.71	−1.88	.....	.....
Willow, Lock No. 13	14.37	+10.62	2.64	−0.24	1.42	−2.88	5.47	+2.70	4.00	+0 22	5.76	+1.44	1.94	−2.88	4.58	+1.23	1.11	−1.95	4 08	+1.67	1.06	−2.32	3 08	−0.97	49.91	+ 6.02
Winchester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.94	.....	2.01	.....	3.84	.....	0.59	.....	2.66	.....	1.22	.....	2.57	.....	.....	.....

The departures from normal precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. T. Precipitation is less than 0.01 inch rain or melted snow.

†Ramsey Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River.

Monthly and Annual Mean Temperatures for the Year 1937, with Departures from the Normal.

Stations.	Jannary.		Febrnary.		March.		April.		May.		June.		July.		Angnst.		September.		October.		November.		December.		Annnal.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
WESTERN DIVISION.																										
Calhonn	43.0	+ 5.9	39.7	+ 0.6	45.4	− 3.0	59.0	+ 0.6	67.0	+ 0.4	.....	.....	.....	.....	79.2	+ 2.0	68 6	− 3.3	.....	.....	.....	.....	.....	.....	.....	.....
Earlington	42.8	+ 6.6	39.8	+ 2.0	44.6	− 2.8	58.2	+ 0.4	68.1	+ 1.1	76.6	+ 0.8	77.0	− 1.9	80.0	+ 0.8	69.6	− 2.0	57.1	− 2.5	44.8	− 3.2	36.8	− 2.1	58.0	0.0
Greenville	a41.3	+ 4.3	38.6	− 1.4	42.2	− 5.1	56.5	− 0.8	65.2	0.0	73.6	− 0.9	74.2	− 3.8	77.8	+ 1.7	*67.2	− 3.9	56.1	− 3.2	43.3	− 4.5	35.5	− 3.7	56.0	−1.7
Henderson	39.8	.....	36.3	.....	41.6	.....	55.9	.....	66.5	.....	75.3	.....	76.7	.....	79.4	.....	69.4	.....	56.4	.....	43 6	.....	34.4	.....	56.3	.....
Hopkinsville	43.6	+ 5.7	39.0	− 0.2	44.6	− 4.2	57.4	− 0.2	67.4	+ 0.2	76.0	+ 0.6	76.8	− 2.3	80.6	+ 2.7	69.4	− 2.8	56.0	− 4.8	45.2	− 3.3	37.4	− 1.6	57.8	−0.8
Lovelaceville	39.8	.....	38.2	.....	43.0	.....	57.0	.....	67.6	.....	75.2	− 0.3	76.5	.....	79.6	.....	69.1	.....	56.4	− 3.6	*43.9	− 3.6	*35.6	− 4.2	56.7	.....
Mayfield	40.9	+ 3.6	39.8	− 0.2	43.9	− 5.8	57.8	− 0.5	68.9	+ 2.4	76.1	+ 1.1	76.8	− 2.1	80.6	+ 3.1	70.2	− 2.0	56.7	− 3.8	45.4	− 3.7	*37.0	− 3.4	57.8	−1.0
Murray	42.1	+ 3.9	39.2	− 1.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.9	− 3.1	43.7	− 4.4	36.4	− 2.8	.....	.....
Owensboro	39.4	+ 4.2	36.7	+ 0.2	41.8	− 4.7	55.3	− 0.4	65.6	+ 0.2	74.2	+ 0.1	75.2	− 2.6	78.2	+ 2.3	67.1	− 3.3	55.5	− 3.2	43.6	− 3.4	34.0	− 3.2	55.6	−1.1
Paducah	.....	.....	.....	.....	.....	.....	58.2	− 1.0	68.1	+ 1.6	75.4	− 2.5	76.2	.....	80.2	− 0.4	69.6	− 4.8	58.0	− 3.3	44.6	− 4.5	36.0	− 3.0	.....	.....
Princeton	41.8	+ 5.6	39.4	+ 1.6	44.0	− 3.7	58.2	0.0	68.9	+ 2.1	76.8	+ 1.5	77.0	− 1.6	80.7	+ 3.4	69.1	− 2.7	56.7	− 2.5	44.4	− 2.9	36.3	− 2.4	57.8	−0.1
Russellville	41.6	+ 5.5	38 0	− 0.3	*42.8	− 4.3	*57.7	+ 0.3	66.2	+ 0.5	75.6	+ 1.0	*76.6	− 1.6	b79.9	+ 2.9	*67.5	− 3.4	55.2	− 4.2	42.2	− 4.8	*34.9	− 3.9	56.5	− 1
CENTRAL DIVISION.																										
Anchorage	39.6	+ 6.1	36.6	+ 2.1	37.6	− 6.8	b54.2	+ 0.4	63.8	+ 0.4	72.5	+ 0.4	74.2	− 2.1	76.8	+ 1.3	65.6	− 3.4	54.6	− 2.1	42.0	− 2.8	33.2	− 1.7	54.1	7
Bowling Green	45.8	+ 8.3	40.9	+ 1.9	46.1	− 2.3	59.9	+ 1.4	68.2	+ 0.7	76.9	+ 0.9	78.8	− 0.5	80.8	+ 2.6	69.2	− 3.2	57.0	− 2.9	45.6	− 2.3	38.8	− 0.2	58.6	0
Danville	44.5	.....	38.0	.....	42.1	.....	55.4	.....	68.6	.....	73.2	.....	75.5	.....	76.8	.....	66.2	.....	54.3	.....	41.8	.....	35.0	.....	55 5	.....
Dix Dam	45.0	+ 7.4	38.9	− 1.4	43.2	.....	57.1	+ 0.3	65 8	+ 0.9	75.2	+ 1.3	76.5	− 1.3	78.2	+ 1.6	68.1	− 3.8	57.0	− 1.8	44.4	− 3.2	36.6	− 3.4	57.2	1
Enbank	45.3	+ 9.5	39.8	+ 1.6	41.6	− 4.1	56.0	+ 1.4	63.3	− 0.7	.....	.....	74.2	− 0.9	76.4	+ 2.5	.....	.....	.....	.....	.....	.....	33.2	− 3.8	.....	.....
Frankfort	42.6	+ 6.3	37.6	+ 0.8	41.1	− 5.0	55.2	− 0.5	64.0	− 1.2	74.8	+ 1.1	76 0	− 1.2	78.2	+ 3.0	67 2	− 2.3	55.4	− 2.0	42.7	− 3.9	34.8	− 2.1	55.8	5
Glasgow	45.4	+ 5.3	41.0	− 0.6	42.1	− 5.1	53.9	.....	63.9	.....	174.6	.....	177.2	.....	79.2	.....	64.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greensburg	43.1	+ 9.6	39.2	+ 2.9	42.6	− 3.5	56.1	+ 0.6	64.9	+ 0.4	74.6	+ 1.4	75.6	− 1.0	78.6	+ 3.4	66.8	− 3.0	54.5	− 2.6	42.3	− 3.4	36.0	− 1.3	56.4	3
Irvington	41.5	+ 5.3	38.0	+ 1.3	42.7	− 4.1	56.2	0.0	65.8	− 0.2	74.4	+ 0.4	76.2	− 1.4	78.6	+ 1.7	67.8	− 2.8	56 4	− 0.8	43 2	− 3.8	35.9	− 1.4	56 4	4
Leitchfied	42.6	+ 6.9	38.0	+ 1.6	42.4	− 3.7	55.8	− 0.1	65.0	− 0.3	75.0	+ 1.7	76.4	− 0.7	79.0	+ 3.4	67.5	− 2.7	56.0	− 2.5	43.4	− 3.4	35.9	− 1.3	56.4	− 1
Lexington	41.7	+ 8.8	38.5	+ 0.1	39.5	− 4.2	54.0	− 0.3	64.1	− 0.2	73.8	+ 1.6	76.2	+ 0.3	78.5	+ 4.0	67.5	− 1.0	53.9	− 3.5	41.4	− 3.4	34.2	− 1.6	55.0	0.0
Louisville	40.2	+ 5.8	35.8	− 1.4	41.6	− 3.8	55.3	− 1.1	65.8	− 0.8	75.1	+ 0.4	77.8	− 1.3	79.2	+ 2.2	67.9	− 2.6	56.0	− 3.3	43.8	− 3.4	34.4	− 3.2	56.0	−1.0
Bowman Field	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	78.8	.....	69.5	.....	55.8	.....	43.3	.....	35.5	.....	.....	.....
Mammoth Cave	42.6	.....	37.6	.....	41.7	.....	54.8	.....	64.1	.....	72.6	.....	73.6	.....	76.8	.....	*65.4	.....	52.2	.....	40.8	.....	36 6	.....	54.9	.....
St. John	42.8	+ 8.5	38.7	+ 3.3	42.4	− 2 6	54.7	0.0	64.8	+ 0.7	74.2	+ 1.7	74.8	− 1.6	78.0	+ 3.1	67.5	− 2.0	56.2	− 1.5	41.0	− 4.8	35.9	+ 0.1	57.7	+2.2
Shelbyville	40.6	+ 6.7	36.2	+ 2.1	39.9	− 4.7	54.1	− 0.5	63.8	− 0.6	72.8	− 0.5	75.4	− 1.4	77.8	+ 2.1	67.5	− 2.1	54.8	− 2.4	41.2	− 2.6	33.6	− 2.1	54.9	−0.4
Smiths Grove	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.6	.....	76.4	.....	79.0	.....	68.6	.....	57.0	.....	44.1	.....	36.6	.....	.....	.....
Stearns	49.8	.....	37.4	.....	39.0	.....	55.7	.....	64.0	.....	72.8	.....	73.8	.....	76.4	.....	67.0	.....	54.5	.....	42.2	.....	36.8	.....	55.8	.....
Williamstown	38.8	+ 5.6	34.8	+ 1.0	38.4	− 5.3	52.5	− 1.0	64.4	+ 0.7	73.1	+ 0.9	76.0	− 0.2	77.0	+ 2.7	69.6	+ 0.4	56.8	+ 0.9	43.8	− 1.4	34.2	− 0.6	55.0	+0.4
EASTERN DIVISION.																										
Ashland	45.1	+ 8.6	38.2	+ 1.5	42.0	− 3.6	53.8	− 1.8	62.4	− 1.9	72.5	− 0.8	75.2	− 1.3	77.9	+ 3.1	66.6	− 3.9	56.4	− 1.4	43.0	− 4.1	34.6	− 4.1	55.6	−0.9
Berea	*46.0	+ 8.8	39.2	+ 0.4	43.0	− 3.6	*56.8	+ 1.0	64.8	− 0.1	74.5	+ 1.6	76.6	+ 0.3	77.3	+ 2.8	*66.8	− 3.1	*56.4	− 3.2	43.0	− 4.5	36.4	− 1.6	56.6	−0.2
Cumberland	48.8	.....	40.2	.....	42.3	.....	56.0	.....	63.8	.....	72.3	.....	73.8	.....	75.6	.....	67.1	.....	54.7	.....	42.7	.....	36.3	.....	56.1	.....
Farmers	45.4	+ 9.8	37.8	+ 0.9	41.1	− 3.9	53.6	− 0.9	62.8	− 0.4	72.4	+ 1.1	b73.2	− 1.9	75.7	+ 2.4	64.8	− 3.5	54.2	− 2.3	*41.6	− 3.9	*33.4	− 3.5	54.7	−0.5
Heidelberg	46.8	.....	39.2	.....	41.8	.....	53.8	.....	63.8	.....	74.0	.....	74 6	.....	77.2	.....	66 6	.....	55.1	.....	42.2	.....	34.5	.....	55.8	.....
Maysville	42.6	+ 8.9	36.5	+ 0.4	39.6	− 4.7	53.6	− 0.8	62.2	− 2.3	72.2	− 0.7	75.0	− 1.8	77.4	+ 2.2	67.8	− 1.9	55.1	− 2.0	42.5	− 2.7	34.0	− 1.3	54.8	−0.6
Middlesboro	b50.8	+11.4	40.5	+ 0.7	45.7	− 2.2	.....	.....	.....	.....	.....	.....	*75.5	+ 0.2	75.8	+ 1.6	*67.2	− 2.4	b56.0	− 1.3	44.2	− 2.1	38.0	− 1.0	.....	.....
Mt. Sterling	43.4	+ 9.4	36.5	+ 2.2	40.4	− 3.4	53.6	− 0.3	62.8	− 0.9	73.4	+ 0.9	74.6	− 1.4	76.8	+ 2.9	65.8	− 2.4	.....	.....	.....	.....	32.6	− 3.0	.....	.....
Pikeville	42.4	.....	40.0	.....	.....	.....	58.0	.....	66.2	.....	75.3	.....	77.0	.....	78.8	.....	68.6	.....	54.8	.....	43.5	.....	37.8	.....	.....	.....
Pippapass	49.1	.....	39.3	.....	41.9	.....	55.4	.....	.....	.....	.....	.....	a74.4	.....	76.2	.....	69.0	.....	56.0	.....	45.4	.....	37.0	.....	.....	.....
Quicksand	46.7	+ 8.0	*37.4	− 2.8	41.6	− 3.6	55.2	− 1.6	63.8	− 1.0	73.2	+ 1.1	73.6	− 3.0	75.2	+ 0.6	64.7	− 6.3	*58.6	− 4.0	40 5	− 6.5	*32.2	− 6.4	54.9	−2.1
Richmond	44.2	+ 8.6	37 9	+ 1.1	41.6	− 4.0	55.5	− 0.6	64.7	− 0.8	73.6	− 0.1	75.0	− 1.9	78.0	+ 2.5	68.7	− 2.4	57.2	− 1.8	44.2	− 3.0	36.5	− 1.7	56.4	−0.3
Williamsburg	49.3	+10.5	39.7	+ 0.3	44.0	− 3.0	58.6	+ 2.0	66.2	+ 0.3	75.2	+ 1.3	76.2	− 1.0	78.5	+ 2.4	69.0	− 1.8	56.2	− 3.3	43.7	− 3.9	37.8	− 2.9	57.8	0.0
Winchester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.8	.....	75.4	.....	77.3	.....	67.2	.....	54 4	.....	42 5	.....	34 4	.....	.....	.....

All temperatnre data are taken from self-registering thermometers.
The departnres from normsl temperatnre are compnted only for such stations as have ten or more years of record, bnt all complete reports are used in determining section or division means.
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

KILLING FROSTS, 1937.

Stations.	Last in Spring.	First in Autumn.	Stations.	Last in Spring.	First in Autumn
WESTERN DIVISON					
Earlington	Mar. 12	Oct. 14	Leitchfield	Mar. 11	Oct. 14
Greenville	do 12	do 14	Lexington	do 12	do 14
Hopkinsville	do 12	do 15	Louisville	do 10	do 14
Lovelaceville	do 12	do 14	Mammoth Cave	do 12	do 14
Mayfield	do 10	do 14	St. John	do 12	do 14
Owensboro	do 12	do 14	Shelbyville	do 12	do 14
Princeton	do 12	do 14	Williamstown	do 12	do 14
Russellville	do 10	do 15			
CENTRAL DIVISON			EASTERN DIVISON		
Anchorage	Mar. 10	Oct. 14	Ashland	Mar. 12	Oct. 14
Bowling Green	do 7	do 15	Berea	do 12	do 14
Danville	do 12	do 14	Farmers	do 12	do 14
Dix Dam	do 12	do 14	Maysville	do 12	do 14
Enbank	do 12	do 15	Middlesboro	do 12	do 15
Frankfort	do 12	do 14	Mount Sterling	do 12	do 14
Greensburg	do 12	do 14	Richmond	do 12	do 14
Irvington	do 12	do 14	Williamsburg	do 12	do 14

MONTHLY SUMMARIES, 1937.

Month.	Temperature.				Precipitation.		Average number of days.				
	State average.	*Departure.	Highest.	Lowest.	State average.	*Departure.	With .01 or more rain.	Clear.	Partly cloudy.	Cloudy.	Average Snowfall.
Jannary	43.6	+ 7.6	76	13	15.77	+11.20	17	4	4	23	2.0
Febrnary	38.3	+ 1.4	78	11	2.40	+ 0.97	10	8	8	12	4.2
March	42.2	− 4.0	77	6	1.43	+ 3.24	7	14	7	10	2.3
April	55.9	− 0.2	91	22	4.39	+ 0.44	12	11	8	11	0.0
May	65.2	− 0.2	99	36	4.01	+ 0.02	10	16	7	8	0.0
June	74.3	+ 0.4	99	45	4.52	+ 0.39	10	18	6	6	0.0
July	75.6	− 0.5	102	41	3.04	− 1.07	7	17	10	4	0.0
August	78 0	+ 2.4	100	53	3 63	− 0.07	9	15	10	6	0.0
September	67.8	− 2.7	93	29	1.84	− 1.11	5	16	7	7	0.0
October	55.7	− 2.5	83	17	4.27	+ 1.51	12	13	6	12	T.
November	43.2	− 3.2	82	6	1.63	− 1.80	9	12	6	12	0.6
December	35.5	− 2.2	68	0	2.94	− 1.00	12	7	6	18	2 0
Annnal means and extremes	56.3	− 0.4	102	0	49.86	+ 4.26	120	151	85	129	11.1

*Compared with 45 years' normal.

NOTE—Tables and charts giving climatic data for Kentucky in detail during 1935 have been published for each month at the Kentncky section center, Weather Bnrean Office, Lonisville, Ky., and can be obtained from the Official in Charge at that office. Indexes to special articles published during past years in Kentncky climatological reports will be found in the Monthly Report for June, 1909,
W B O Louisville, 2-24-38-1250.

K E

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

THE LIBRARY OF THE
MAR 16 1938
UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., JANUARY, 1938 No. 1

GENERAL SUMMARY.

Except for a short period of comparatively severe weather late in the month, temperatures above normal predominated. Slow growth at times caused some improvement in winter grains and pastures, but high temperatures did not persist long enough to affect fruit buds. Very light precipitation in the first three weeks allowed the upland soils to drain sufficiently that plowing could be resumed toward the end of the dry spell. Frequent moderate to heavy rains in the last decade stopped this work and prevented most other outdoor activities on the farm; but the increased atmospheric moisture brought conditions favorable for stripping and marketing tobacco. This important phase of winter industry had suffered considerable delay during the long dry period. Cold and windy weather near the end of the month also dried out the weed and reduced handling.

Deep freezes in the last week, with the soil saturated by recent rains, caused some lifting effect on grains, but the injury was not important. Excellent drainage in the top soil prior to this time had prevented any damage from freezes. Light to moderate snow gave some protection to grains during the coldest weather. At the end of the month, wheat, rye and barley appeared to be in good condition. There was less standing water and ice on fields than usual in this month.

In the long dry interval corn gathering advanced practically to completion, and most fodder was removed from the grain fields. Much other outdoor work was accomplished during this period. Livestock could run on pastures much of the time. The weather during most of the month had less than the usual adverse effect on egg and milk production. In general the weather was more favorable than otherwise for winter vegetation, livestock, and the usual cold season farm and commercial activities.

TEMPERATURE.

In the warm period from the 16th to 24th daily mean temperatures ranged from 17° to 20° above normal, and maxima above 60° were registered on several days. In the short cold interval that followed from the 25th to 28th, and also on the last day, temperatures averaged as much below the seasonal level. On the four coldest days many stations reported minima from slightly below to a few degrees above zero. Extremes for the State were 72° on the 24th at Pikeville and −4° on the 27th at Greenville.

PRECIPITATION.

Precipitation averaged slightly more than three-fourths of the normal amount. In some central, western, and southeastern counties it reached the seasonal average and ranged between 4.0 and 5.0 inches. It diminished irregularly northward toward the Ohio and eastward toward the Big Sandy. In counties near these rivers and in a part of the eastern bluegrass region monthly amounts varied from 2.0 to 3.0 inches. Other western, central and southern districts received from 3.0 to 4.0 inches. The range for the State was from 1.57 inches at Grant to 6.25 inches at Cumberland. Precipitation was generally unimportant in the first two decades. There were light to moderate showers on the 1st and scattered showers on the 6-7th and from the 10th to 15th. Moderate to heavy rains occurred in the periods 20-26th and 30th-31st. The heaviest rains fell on the 21st and 31st. The total snowfall ranged from 1.0 to 3.5 inches. Most of it occurred on the 25th. Thunderstorms were reported on the 24th and 30th.

MISCELLANEOUS.

Rivers.—The Ohio declined slowly to pool levels in the first half of the month, then rose slowly to moderate stages in the last decade.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.09	30.66	31	29.19	24	10.0	32	sw.	24	78	63	66	57
Cincinnati ..... Ohio	30.06	30.66	31	29.23	24	9.0	30	s.	24	80	68	70	45
Evansville..... Ind.	30.09	30.67	31	29.18	24	10.1	48	sw.	24	78	66	68	51
Louisville ..... Ky.	30.10	30.69	31	29.28	24	11.8	37	se.	24	78	64	67	45

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature. †Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	38.0	65	13	3.52	....	..	..	..	..
1890	44.0	77	10	6.43	....	..	..	..	..
1891	37.0	68	14	5.40	....	..	..	..	..
1892	29.0	65	− 6	2.72	....	..	..	..	..
1893	26.0	67	−22	2.08	....	..	..	..	..
1894	38.0	78	−12	2.91	....	..	..	..	..
1895	30.0	78	−16	5.71	....	11	8	8	15
1896	36.1	74	− 3	1.25	....	6	9	7	15
1897	32.0	75	−16	3.25	4.2	8	11	8	12
1898	40.4	72	6	8.76	1.4	14	8	6	15
1899	34.4	68	−18	6.23	8.5	11	9	8	14
1900	37.2	77	− 8	2.80	0.9	8	12	8	11
1901	36.7	75	4	1.85	0.8	7	12	7	12
1902	33.7	70	5	5.14	2.3	7	14	5	12
1903	34.8	82	− 9	2.50	2.8	9	11	6	14
1904	32.3	70	− 9	3.17	2.5	10	13	5	13
1905	27.5	70	−15	2.83	12.8	11	10	5	16
1906	39.7	80	− 9	3.48	3.1	8	11	6	14
1907	43.2	83	−11	8.02	4.8	14	7	6	18
1908	35.0	62	7	2.20	1.0	8	13	5	13
1909	38.3	77	− 8	3.47	5.7	9	5	6	20
1910	33.8	70	−20	4.41	11.0	10	9	5	17
1911	39.7	73	−16	2.88	4.4	11	7	4	20
1912	25.9	61	−20	3.09	11.7	8	13	4	14
1913	42.5	76	13	11.41	1.9	14	8	6	17
1914	39.4	79	5	2.31	1.0	6	9	7	15
1915	33.0	65	0	5.03	7.0	13	8	7	16
1916	41.2	78	− 5	7.27	3.7	14	9	6	16
1917	36.7	74	−17	6.38	12.0	12	8	8	15
1918	20.6	62	−20	5.09	23.3	14	9	7	15
1919	37.9	68	− 1	3.62	1.6	7	16	6	9
1920	33.4	72	− 6	6.75	0.7	10	10	6	15
1921	39.7	71	12	3.06	4.0	10	10	7	14
1922	34.6	67	1	2.25	1.1	8	12	8	12
1923	41.0	68	11	6.11	T.	12	8	6	17
1924	31.3	66	− 8	5.05	1.2	9	15	5	11
1925	35.8	66	− 9	2.60	4.1	10	12	6	13
1926	34.4	69	−11	4.01	7.1	10	12	5	14
1927	35.8	76	− 3	6.83	2.2	12	19	6	16
1928	35.0	76	− 8	2.47	1.9	8	14	7	10
1929	34.8	76	− 6	4.54	1.8	13	9	7	15
1930	34.6	75	−20	4.85	3.8	13	11	5	15
1931	37.7	72	− 9	1.23	2.3	6	13	5	13
1932	44.9	80	14	8.13	0.2	14	11	5	15
1933	43.9	74	10	5.18	0.1	12	12	8	11
1934	40.4	72	− 3	1.85	0.2	8	11	6	14
1935	37.3	71	− 2	5.28	3.4	9	11	6	14
1936	20.4	68	−25	2.90	6.2	11	10	7	14
1937	43.6	76	13	15.77	2.0	17	4	4	23
1938	38.9	72	− 4	3.56	1.6	9	12	5	14
Period	36.0	83	−25	4.65	4.1	10	11	6	14

†49-year averages.

Climatological Data for January, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																			
Beaver Dam	Ohio	441	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Eldred G. Young.
Birmingham	Marshall	....	2	....	....	....	....	....	....	....	3.87	....	1.63	3.0	5	....	....	....	....	Tennessee Valley Authority.
Calhoun	McLean	437	34	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	R. C. Bennett.
Earlington	Hopkins	420	44	37.4	+ 1.2	61	24	8	27	32	3.43	−1.61	1.06	0.8	10	17	1	13	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	....	....	....	....	....	....	....	4.59	−1.11	1.44	3.5	11	....	....	....	....	Lockmaster.
Greenville	Muhlenburg	519	21	35.8	− 1.2	61	16‡	− 4	27	36	3.65	−0.92	1.15	2.0	10	14	4	13	s.	C. R. Lovell.
Henderson	Henderson	382	16	34.5	....	59	29	− 2	27	34	4.14	+0.49	1.54	2.0	6	9	10	12	s.	Frank Street.
Hopkinsville	Christian	524	42	37.8	− 0.1	66	23	8	27	34	4.10	−1.12	1.47	5.0	9	17	3	11	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	36.0	+ 1.5	63	24	10	27†	28	3.90	−2.02	1.25	2.0	5	14	4	13	s.	Blaine Malone.
Mayfield	Calloway	364	29	38.0	+ 0.7	62	30	12	28†	29	3.48	−1.68	1.65	2.0	5	16	4	11	s.	Mrs. Joe Payne.
Murray	Graves	412	12	36.6	− 1.6	59	16‡	12	27	23	3.43	−2.10	1.00	0.2	8	10	5	16	n.	Pat W. Wear.
Owensboro	Daviess	420	41	35.0	− 0.2	61	24	0	28	33	2.77	−1.50	1.30	1.5	7	12	3	16	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	....	....	....	....	....	....	....	3.36	−1.96	1.39	1.6	12	....	....	....	....	Lockmaster.
Paducah **	McCracken	341	18	37.2	− 0.2	62	16	9	27	30	3.78	−1.19	1.29	1.0	9	16	7	8	.....	Joe Lagore.
Princeton	Caldwell	529	31	39.6	+ 0.4	63	16	5	27	34	4.02	−0.95	1.10	2.0	9	12	7	12	w.	Dr. W. L. Cash.
Rumsey, Lock 2	McLean	384	21	....	....	....	....	....	....	....	3.26	−1.38	1.12	3.0	10	....	....	....	.....	Lockmaster.
Russellville	Logan	590	25	35.3	− 0.8	64	16	8	27	41	3.78	−1.46	1.00	.....	9	14	5	12	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	....	....	....	....	....	....	....	3.61	−1.51	1.14	3.5	12	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	....	....	....	....	....	....	....	4.62	−1.16	1.40	.....	12	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	38	32.8	− 0.7	69	24	− 3	27†	36	3.06	−1.11	1.56	1.5	7	13	3	15	w.	C. E. Barret.
Bowling Green	Warren	500	42	37.7	+ 0.2	60	16‡	7	27	30	3.84	−1.38	0.95	1.5	10	13	6	12	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	21	....	....	....	....	....	....	....	4.14	−1.38	1.10	2.0	11	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	47	....	....	....	....	....	....	....	4.54	−0.27	1.20	1.0	13	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	....	....	....	....	....	....	....	2.48	−1.24	0.80	.....	6	....	....	....	.....	Lockmaster.
Cold Spring, Dam 86	Campbell	489	12	....	....	....	....	....	....	....	2.81	−0.97	0.78	1.0	8	....	....	....	.....	Lockmaster.
Danville	Boyle	955	14	35.4	....	61	24	1	28	35	3.42	−0.26	1.40	1.1	11	7	5	19	w.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	37.3	− 0.3	61	24	6	27†	36	3.48	−0.78	1.25	1.3	9	9	7	15	nw.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	33.6	− 2.1	60	24†	8	27	38	2.71	−1.82	0.95	0.1	6	10	7	14	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	36.6	− 0.8	59	21	4	28	37	3.02	−1.22	1.29	1.0	8	10	4	17	w.	Lockmaster.
Gest, Lock 3	Henry	490	28	....	....	....	....	....	....	....	3.63	−0.42	0.96	2.0	9	....	....	....	.....	Lockmaster.
Glasgow	Barren	780	11	....	....	....	....	....	....	....	....	....	....	.....	....	....	....	....	.....	R. L. Beatty.
Grant, Dam 35	Boone	506	13	....	....	....	....	....	....	....	1.67	−1.52	0.53	1.0	7	....	....	....	.....	Lockmaster.
Greensburg	Green	581	45	36.8	+ 1.3	62	24	1	28	40	4.03	−1.23	1.83	0.5	9	6	3	22	sw.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	644	36	....	....	....	....	....	....	....	3.81	−0.81	1.29	.....	11	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	40	35.3	− 0.9	59	24	2	28	28	3.20	−1.21	1.40	1.0	9	11	2	18	nw.	W. J. Piggot.
Lancaster	Garrard	1032	12	....	....	....	....	....	....	....	3.60	−0.71	1.15	.....	10	....	....	....	.....	Walter Killion.
Leitchfield	Grayson	635	42	3508	+ 0.1	60	21	− 1	28	32	4.59	−1.40	1.12	2.0	10	12	6	13	sw.	H. H. Willis.
Lexington	Fayette	989	54	33.6	+ 0.7	58	30	3	28	28	3.77	−0.41	1.45	2.8	12	11	3	17	.....	U. S. Weather Bureau.
LittleHickman, Lock 8	Jessamine	560	28	....	....	....	....	....	....	....	3.43	−0.98	1.20	.....	7	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	....	....	....	....	....	....	....	4.06	+0.04	1.32	1.5	8	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	34.3	− 0.1	60	24	7	25	29	2.47	+1.53	1.37	0.6	10	10	8	13	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	....	34.2	....	57	20	5	27	33	3.11	....	1.19	.....	11	....	....	....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	8	a37.1	.....	63a	17	− 3a	27	42a	4.89	.....	1.05	1.3	10	10	9	12	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	9	....	....	....	....	....	....	....	3.88	−1.58	1.11	1.0	8	....	....	....	.....	Mrs. M. W. Price.
St. Joan	Hardin	777	42	36.0	+ 1.7	64	24	0	28	37	6.02	+0.26	1.85	1.0	8	17	11	3	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	....	....	....	....	....	....	....	4.49	−0.18	1.40	.....	7	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	45	34.0	− 0.1	57	24	− 1	28	33	3.93	−0.62	0.98	T.	12	13	0	18	sw.	Miss Ruth Fatta.
Shepherdsville	Bullitt	500	1	....	....	....	....	....	....	....	3.98	.....	1.62	1.1	11	13	1	17	w.	A. McLeod.
Smith's Grove	Warren	607	....	36.8	.....	60	16‡	0	27	31	5.01	.....	1.13	.....	12	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	2	36.1	.....	64	23	5	27	33	4.46	.....	1.31	.....	13	....	....	....	....	Airway Station.
Tyrone, Lock 5	Anderson	524	20	....	....	....	....	....	....	....	4.22	−0.22	1.39	2.8	19	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	35	35.0	+ 1.8	60	24	0	28	35	3.75	−0.11	1.00	.....	7	14	6	11	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	21	....	....	....	....	....	....	....	3.99	−1.17	1.24	1.2	9	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	7	....	....	....	....	....	....	....	8.40	.....	0.72	4.0	11	11	6	15	sw	W. A. Worthington.
Ashland	Boyd	534	21	36.8	0.0	63	21	8	1	44	2.32	−.74	0.58	0.5	10	8	5	18	w	Lockmaster.
Berea	Madison	1070	35	a37.4	+ 0.2	62a	24	7a	27	44	3.24	−1.61	0.86	2.0	11	14	3	14	s	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	....	....	....	....	....	....	....	2.98	−1.50	0.76	T.	10	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	1	37.6	.....	68	24	5	28	41	6.25	.....	2.60	1.1	7	19	7	5	nw.	C. Bertrand Fields.
Cynthiana	Harrison	684	20	....	....	....	....	....	....	....	2.90	−1.28	1.50	.....	4	....	....	....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	....	....	....	....	....	....	....	3.58	−0.48	1.28	.....	8	....	....	....	.....	J. V. Oldham.
Farmers	Rowan	668	31	35.8	− 0.8	69	24	− 2	28	45	2.66	−1.78	0.72	0.8	7	10	4	17	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	....	....	....	....	....	....	....	2.78	−1.65	0.85	.....	6	....	....	....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	22	....	....	....	....	....	....	....	3.37	−0.90	1.05	.....	8	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	....	....	....	....	....	....	....	2.26	−1.27	0.58	0.5	8	....	....	....	.....	Lockmaster.
Hazard	Perry	869	14	....	....	....	....	....	....	....	4.76	+1.54	1.25	.....	9	....	....	....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	3	37.2	.....	66	24	0	28	33	3.15	−0.11	0.65	1.0	10	4	5	22	sw.	Lockmaster.
Jackson	Breathitt	776	14	....	....	....	....	....	....	....	4.32	....	0.80	2.0	9	....	....	....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	....	....	....	....	....	....	....	3.59	+0.16	0.63	1.0	14	....	....	....	.....	R. J. Howard.
Louisa	Lawrence	684	35	....	....	....	....	....	....	....	2.77	−1.06	0.95	.....	6	....	....	....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	35.2	+ 1.5	67	24	4	28	39	2.83	−1.27	0.96	1.0	8	7	12	12	.w.	Lockmaster.
Middlesboro	Bell	1128	39	33.4	0.0	66	24	8	28	42	5.73	+1.12	2.30	.....	4	11	12	8	.....	Mathew Woodson
Mount Sterling	Montgomery	930	45	35.9	− 1.1	60	23†	0	28	33	....	....	....	.....	....	5	9	16	w.	W. R McKee.
Oneida	Clay	....	1	....	....	....	....	....	....	....	4.07	....	1.30	.....	6	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35	Campbell	497	16	....	....	....	....	....	....	....	2.81	−0.67	1.03	2.8	9	....	....	....	.....	Lockmaster.
Paintsville	Johnson	620	4	....	....	....	....	....	....	....	2.78	....	0.68	1.7	10	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	2	37.2	.....	72	24	9	28	47	3.09	−0.69	0.72	1.0	8	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	4	38.6	.....	71	18	7	28	46	4.15	....	1.30	2.2	10	16	3	12	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	35.8	− 2.9	71	24	0	28	47	3.43	−0.48	0.83	3.0	9	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	2.21	−1.37	0.44	.....	9	....	....	....	.....	Lockmaster.
Richmond	Madison	926	41	36.8	+ 1.5	60	18‡	4	27	34	2.80	−1.61	0.75	.....	7	12	0	19	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	....	....	....	....	....	....	....	3.63	−1.02	1.25	0.2	10	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	521	21	....	....	....	....	....	....	....	3.23	−0.83	0.93	.....	7	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	41	37.6	− 1.2	68	17	10	27	36	3.20	−1.22	0.76	5.2	10	12	9	10	.....	Wadely West.
Willow, Lock 13	Lee	646	18	....	....	....	....	....	....	....	3.38	−0.37	0.80	1.5	8	....	....	....	.....	Lockmaster.
Winchester	Clark	964	....	34.0	.....	60	24	4	27†	31	3.21	.....	0.99	.....	12	....	....	....	.....	Airway Station.
State averages and extremes		....	....	35.9	− 0.1	72	24	− 4	27	47	3.56	−0.49	2.60	1.6	9	12	5	14	sw.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow
‡ Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
¶ Post-office addresses:—Lock 5, Lawreneeburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.
** Precipitation by U S. Engineers.

Daily Precipitation for January, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam																																
Birmingham	T.																					1.63		.63	.45	.36	T.			.80	3.87
Calhoun																																
Earlington	.20											.06		T.						.42	1.06	.24	.07	.40	.18					.32	.48	3.43
Fords Ferry Dam 50‖	.20											.02	T.		T.	T.			.01		1.20	.20	.06	.78	.43	.15	T.			.04	1.41	4.59
Greenville	.30													.02						.08	1.10	.62	T.	.28	.16	.02	T.			1.15	.03	3.68
Henderson														.14						.40	1.25		T.	.68	.23					1.54		4.14
Hopkinsville	.17											.04								T.	1.47	.82	.18	.60	.27	.07				1.00		4.10
Lovelaceville																				.45	.85			1.26	.16					1.20		3.90
Mayfield	.06											T.								T.	1.65	.27		.80						.70		3.48
Murray	.12											.01								.30	.70	.30		1.06	.05					.95		3.43
Owensboro	.07											T.		T.					.05	.40	.67		T.	.20	.08					1.30		2.77
Owensboro, Dam 46 ‖	.29									T.		.01		T.	.06				.07		1.04	.05	.02	.20	.15	.03				.05	1.39	3.86
Paducah	.25											.03			T.				T.	T.	1.29	.32	.01	.60	.30	T.				.02	.97	3.78
Princeton										T.	T.	.03		.03						.18	1.10	.43	.06	1.00	.24					.96	T.	4.02
Ramsey, Lock No. 2 ‖	.20											T.			.05				.02		1.12	.24	.02	.28	.20	.10				T.	1.03	3.26
Russellville ‖	.49											.01									.77	.73	.06	.22	.25					.26	1.00	3.78
Uniontown, Dam 49 ‖	.29											.02			T.				.07	.01	1.14	.03	.01	.51	.35	.03	T.			.07	.98	3.51
Central Division																																
Addison, Dam 45 ‖	.66									T.		.01			.07				.02		1.59	.08		.53	.18	.07	.01			.10	1.40	4.52
Anchorage	.13									T.				.03						.05	.70	T.	.04		.65					1.66	T.	3.06
Bowling Green	.39						.02					.01									.80	.70	.02	.35	.46	.15					T.	1.33	4.03
Brownsville, Lock No. 6 ‖	.45											.02			.05						.75	.64	.06	.42	.64	.07				.04	1.10	4.14
Burnside ‖	.87						.82					.20	.05		.12				.04		1.20	.90	.40	.14	.50	.10					.20	4.54
Carrollton ‖ Lock No. 1	.16														.60						.80	.60			.16						.36	2.48
Cold Spring, Dam 36 ‖	.41									T.	T.	T.									.29	.07		.12	.64	.08	T.			.02	.78	2.31
Danville	.29						.08					T.			.07				T.		.63	.23	.15	.11	.46	.04	.01				1.40	3.42
Dix Dam, Burgin ‖	.34					.03														.91	.43	.12	.06	.31	.03					1.25		3.48
Eubank																					.85	.19	.29	.25	.18					.95		2.71
Frankfort ‖, Lock No. 4						T				T.	T.	T.	T.	.07					T.	.02	.95	.06		.07	.56	.01			T.	1.29	3.02
Gest, Lock No. 3 ‖	.67									.02	.05	T.									.76	.07		.09	.96	.05					.96	3.63
Glasgow																																
Grant, Dam 35 ‖	.32			T.			T.	T.				.03	T.	T.	T.						.24	.03	T.	.22	.13	T.	T.			.07	.63	1.67
Greensburg	.31						.03								.17						.60	.55	.06	.32	.67	T.				T.	1.33	4.03
High Bridge, Lock No. 7 ‖	.46						.04					.02			.03						.94	.54	.08	.11	.30	.02	T.				1.29	3.81
Irvington	.14									T.		T.		.03					T.	.08	1.18	.04	T.	.18	.06	T.				1.40	.08	3.20
Lancaster ‖						.08								.11						.78	.30	.32	.04	.72	.08	.02				1.16		3.60
Leitchfield	.55											T.		.07						.25	1.12	.31	.22	.45	.21	T.				1.00	.41	4.59
Lexington ***						.01				T.		.01		.09	T.				.01	.33	1.09	.03	.02	.49	.21	.03				1.45		3.77
Little Hickman, Lock No. 8 ‖	.30	T.										T.									.90	.35	.12		.50	.06	T.				1.20	3.43
Lockport, Lock No. 2 ‖	.60								.05						.10						.90			.26	.68	.15				1.32	4.06
LOUISVILLE ***							T.			T.	T.	.01		.06		T.	T.		.02	.22	.50	.01	.04	.18	.06	T.			1.37	T.	2.47
Do. Bowman Field	.29									T.		T.		.07	T.	T.			T.	.08	.73	.01	.04	.49	.09	.08				1.19	.08	3.11
Mammoth Cave	.22						T.					T.		.07						.05	.95	.45	.12	1.05	.07	T.				96	.45	4.39
Munfordville	.26											T.			T.						.90	.45	.08	.37	.60	.11					1.11		3.88
St. John	.37											.10									1.85	.15	.10	.50	T.					1.10	.45	6.02
Salvisa, Lock No 6 ‖	.50																		.10		1.40	.30	T.	.15	.72	T.				T.	1.82	4.49
Shelbyville	.38									T.		.03		.03	.02				.03		.89	.02	T.	.98	.18					.92	.46	3.93
Shepherdsville	.33											.07						.01	.03		1.62	.03		.58	.05	.06				.37	.80	3.95
Smith's Grove	.25						.02					T.			.01					.03	.94	.73	.17	.62	.35	.03				.71	1.13	5.01
Stearns	.01				.29					.24	.01			.09						.48	1.31	.20	.24	.55	.20	.04				.80		4.46
Tyrone, Lock No. 5 ‖	.32										T.	.02		T.	.09				T.		1.50	.25	T.	.12	.70	.09				.05	1.28	4.22
Williamstown	.36																				.83	.02		.85	.20					1.00	.50	3.75
Woodbury, Lock No. 4 ‖	.50											T.		.04							.82	.64	.04	.49	.16	.06					1.24	3.99
Eastern Division																																
Annville	.26						.24				.16				.10						.58	.32	.33	.02	.58	.09					.72	3.40
Ashland ‖	.18						.16			.01										.01	.30	.58	.02		.51	.02					.53	2.32
Berea	.25				.19		.03							.12							.86	.36		.35	.18	.04	.01			.85	3.24
College Hill, Lock No. 11 ‖	.26						.19					T.			.18	T.		T.			.58	.36	.15	.02	.43	.05					.76	2.98
Cumberland	.88				.29									T.							.92	.74			2.60	.44	.38					6.25
Cynthiana ‖																					1.20	.10		.10						1.50	2.90
Falmouth ‖	.70									T.	.02			.01							.72	.03	T.	.08	.64	T.	T.			T.	1.28	3.53
Farmers ‖	.24						.11														.64	.33			.44	.08					.72	2.56
Flemingsburg ‖	.43																				.86	.81			.34	.01					.84	2.78
Ford, Lock No. 10 ‖	.45							T.				T.			.05						.70	.38	.06	T.	.61	.07	T.				1.05	3.37
Greenup, Dam 30 ‖	.33						.12					.01									.33	.58			.30	.02	T.				.57	2.26
Hazard ‖	.50						.65				.10			.10							.90	.60	.10	1.25	.06					.60	4.76
Heidelberg, Lock No. 14 ‖	.22						.26				.08				.10						.46	.42	.27	T.	.62	.07	T.				.65	3.15
Jackson	.18						.35					.15									.68	.50	.88		.80	.20					.58	4.32
Jenkins ‖	.12	.08					.23	.02			.17	.04			.04						.38	.63	.68		.60	.13	.02				.55	3.69
Louisa ‖							.42														.60	.45			.95						.45	2.77
Maysville ‖, Dam 33	.41			T.			T.	T.				.02									.68	.35		.03	.43	.02					.96	2.83
Middlesboro	C.																				2.30	.90	1.58		.96							5.74
Mount Sterling																																
Oneida	.43						.40														1.30	.45			.95					.64		4.07
Oneonta Dam 35 ‖	.57			T.				T.			T.	.03	T.								.34	.08		.11	.57	.02	T.			.01	1.03	2.81
Paintsville ‖	.21						.83				.07	T.			.06				T.		.40	.41	.13		.68	.06					.43	2.78
Pikeville ‖	.26				.20		.23				.08	T.		.07	T.						1.00	.35			.63	.17					.26	3.09
Pippapass	.32		.35		.58						.25		T.		.05						1.30	.50	.10		T.	.10					.60	4.15
Quicksand ‖	.18						.35					.20			.06					.60	.40		.18		.83					.63	3.43
Ravenna, Lock No. 12 ‖	.19						.17				T.	T.			.10				T.		.44	.32	.16	T.	.35	.06					.43	2.21
Richmond	.40						.15								.15						.70	.40			.25						.75	2.56
Valley View, Lock No. 9 ‖		T.					.08					.03		.10							.80	.50	.08	.33	.45	.01					1.25	3.63
Vanceburg, Dam No. 32 ‖	.50											.07									.52	.56			.68	.03					.93	3.29
Williamsburg ‖							.47					.29			.21						.43	.48	.13	.10	.75	.15					.19	3.20
Willow, Lock No. 13 ‖							.35					.03									.80	.30	.18	.75	.05	.10					.80	3.88
Winchester	.36					.02	.02	T.						.10						T.	.99	.12		.41	.18	.02	.01			.35	.66	3.24

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for January, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Earlington	Maximum	57	46	46	44	55	51	48	28	42	45	46	44	43	41	42	60	60	49	52	50	60	51	55	61	43	20	24	37	59	57	36	46.8
	Minimum	33	25	19	26	33	36	23	13	13	33	34	36	20	30	30	35	43	33	32	35	48	44	30	43	19	11	3	5	35	36	14	28.1
Greenville	Maximum	57	45	47	46	57	54	43	30	42	42	49	41	44	38	40	61	61	45	55	51	60	52	53	60	40	18	24	36	59	51	35	46.3
	Minimum	29	23	16	24	23	32	22	8	11	31	34	34	17	27	26	30	41	31	28	34	45	42	30	43	16	9	− 4	0	32	35	13	25.2
Henderson	Maximum	52	39	44	45	58	49	31	30	42	44	46	44	42	36	42	58	56	35	54	45	55	47	51	58	35	16	25	35	59	54	30	45.7
	Minimum	31	28	18	23	27	30	20	12	13	34	31	34	19	31	23	33	35	34	31	35	44	42	30	33	13	8 −	2	1	31	29	11	25.3
Hopkinsville	Maximum	58	48	46	47	56	50	45	31	42	42	45	40	45	38	43	62	60	48	55	51	60	56	66	60	44	22	26	40	60	57	30	47.5
	Minimum	32	26	21	29	24	29	22	15	17	31	35	35	21	30	32	36	46	32	29	35	50	44	36	44	20	10	3	6	26	40	16	28.1
Lovelaceville	Maximum	56	45	43	44	53	48	40	29	41	43	44	44	41	38	44	59	55	50	51	47	55	51	52	63	35	22	27	38	55	55	31	45.1
	Minimum	28	24	24	25	31	30	22	11	16	33	26	33	17	29	31	36	40	34	27	33	47	41	33	35	18	12	10	10	34	30	11	26.8
Mayfield	Maximum	58	47	45	47	55	56	45	31	42	41	46	44	43	40	46	61	59	52	54	54	54	53	54	60	38	23	27	40	60	62	34	47.5
	Minimum	31	28	23	26	28	33	23	14	19	34	34	35	21	32	30	35	42	32	28	34	49	48	37	36	21	13	13	12	34	33	12	28.6
Murray	Maximum	57	45	43	37	45	48	36	73	35	44	42	41	53	34	40	59	59	45	43	48	59	51	58	40	33	22	27	37	51	38	32	44.2
	Minimum	34	29	24	29	30	32	24	16	19	35	38	33	24	22	32	38	44	35	29	34	43	40	38	32	21	14	12	20	34	29	14	28.9
Owensboro	Maximum	57	45	42	44	53	51	50	29	39	43	44	45	43	39	39	53	43	41	52	53	57	57	53	61	47	16	19	26	57	53	36	44.4
	Minimum	31	24	21	23	24	29	26	14	14	30	33	33	20	27	27	30	37	32	32	35	45	45	28	45	14	9	2	0	24	33	12	25.6
Paducah	Maximum	58	45	45	46	57	52	40	31	44	45	46	42	44	40	46	62	57	44	52	49	57	53	52	61	36	25	29	40	59	56	30	46.5
	Minimum	28	25	21	25	28	35	24	13	19	35	30	35	21	31	32	40	40	35	27	34	49	43	34	36	21	12	9	10	35	30	12	28.0
Princeton	Maximum	57	44	45	46	57	49	35	30	45	45	47	42	45	37	45	63	59	39	54	50	58	50	52	59	34	21	26	40	60	55	31	45.8
	Minimum	33	26	20	27	23	28	23	13	16	33	35	36	20	30	33	34	39	33	32	37	50	46	33	35	19	10	5	7	34	31	13	27.5
Russellville§§	Maximum	56	46	45	46	55	47	29	30	40	42	44	42	43	35	40	64	59	42	54	54	59	51	59	58	29	19	24	36	56	58	25	44.6
	Minimum	35	27	21	22	27	28	23	14	14	17	34	36	22	28	30	31	37	34	29	29	39	45	31	37	23	11	23	5	31	33	17	26.1
Central Division.																																	
Anchorage	Maximum	54	42	42	45	54	50	38	28	39	41	42	41	39	35	34	52	55	43	48	47	56	48	57	59	32	28	22	24	55	49	32	42.8
	Minimum	29	21	18	26	22	26	23	16	14	31	27	32	17	21	18	30	31	30	30	29	44	35	29	32	12	8	3 −	3	20	31	16	22.7
Bowling Green	Maximum	57	44	43	38	46	48	33	30	40	43	45	44	42	40	38	60	60	49	55	53	55	50	55	59	45	31	24	35	54	58	36	46.3
	Minimum	37	29	24	33	28	31	26	17	16	30	38	25	25	30	30	30	46	38	32	36	40	46	38	45	25	12	7	9	29	36	20	29.1
Danville	Maximum	57	43	43	46	54	45	39	29	37	41	42	46	41	36	34	56	59	48	48	47	69	58	56	61	49	16	20	28	57	59	49	45.3
	Minimum	35	30	17	29	24	28	24	14	8	25	32	32	21	21	21	28	46	31	24	29	42	44	36	46	14	7	3	1	21	39	18	26.6
Dix Dam	Maximum	57	46	45	46	54	52	40	30	38	45	45	45	42	40	34	56	58	44	49	47	60	59	56	61	37	18	20	28	57	60	47	46.2
	Minimum	37	30	29	32	28	30	26	16	12	27	35	35	22	24	22	32	46	33	34	30	45	47	48	40	19	10	5	5	25	44	22	28.4
Eubank	Maximum	56	53	48	35	43	43	38	24	31	38	37	35	38	36	31	35	37	46	45	48	56	56	51	60	50	14	14	25	47	60	51	41.2
	Minimum	36	33	27	26	23	24	24	13	11	23	31	19	26	22	29	29	26	28	39	28	41	46	35	46	30	6	8	4	20	37	19	25.9
Frankfort	Maximum	55	44	45	47	54	48	44	30	37	42	45	45	42	36	35	53	58	49	47	48	59	58	53	57	48	16	22	27	55	57	49	46.3
	Minimum	35	26	18	28	25	25	27	16	9	27	33	34	20	22	23	21	38	31	31	27	44	45	30	45	11	8	8	4	23	41	21	25.7
Glasgow	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Greensburg	Maximum	57	46	46	48	58	48	43	32	39	43	43	45	41	36	35	60	61	53	56	53	60	59	61	62	50	20	24	32	56	61	60	47.8
	Minimum	35	21	17	28	18	22	24	12	10	23	32	33	20	21	22	27	48	32	30	29	45	46	35	47	15	9	8	1	23	46	20	25.8
Irvington	Maximum	55	40	44	45	53	51	43	26	38	43	43	42	40	36	36	56	57	38	50	46	57	50	55	59	41	14	21	30	52	51	34	43.4
	Minimum	37	27	23	28	29	23	23	15	14	33	35	34	23	31	28	32	37	33	32	35	43	44	37	41	13	9	7	2	28	34	15	27.2
Leitchfield	Maximum	54	42	45	46	54	48	42	27	38	41	44	42	42	36	34	55	56	47	54	48	60	53	54	58	42	15	23	31	53	54	42	44.5
	Minimum	32	27	20	27	28	32	25	14	13	30	34	33	21	28	28	30	39	33	31	35	45	44	33	42	15	9	0	− 1	29	42	18	27.0
Lexington	Maximum	45	42	44	44	51	43	32	29	36	39	45	41	38	35	32	53	57	39	46	52	57	49	55	60	32	15	21	27	53	58	29	41.9
	Minimum	38	25	21	29	26	32	25	15	13	26	32	30	21	25	28	28	35	29	31	32	46	40	34	32	10	7	5	3	27	29	16	25.3
Louisville	Maximum	46	38	42	44	52	51	41	28	37	42	43	41	37	35	35	54	54	37	46	46	57	48	55	60	31	13	21	33	55	52	26	41.5
	Minimum	38	29	25	29	32	31	21	15	16	33	36	30	24	20	29	32	36	32	31	33	45	41	37	31	7	8	8	9	33	26	16	27.1
Do. Bowman Field	Maximum	47	37	43	44	53	50	28	26	37	41	43	40	37	36	35	54	52	35	45	46	57	48	56	60	22	14	22	28	55	51	26	40.9
	Minimum	35	28	22	27	29	34	16	14	26	32	33	35	24	29	27	31	41	32	32	33	45	44	32	43	13	6	6	8	37	37	14	27.5
Mammoth Cave	Maximum	62	46	46	46	54	51	44	29	39	43	44	46	42	42	..	60	63	58	56	48	60	60	57	60	51	28	28	35	59	61	61	49.3
	Minimum	35	23	15	27	26	28	21	9	12	29	37	32	18	26	..	27	24	32	28	32	39	43	31	43	15	8 −	3 −	1	28	45	16	§24.9
Maxwell	Maximum	56	44	43	49	55	49	42	31	38	40	41	44	41	37	35	55	59	46	52	54	58	56	56	64	45	18	26	29	54	58	54	46.1
St. John	Maximum	31	25	20	26	22	28	24	18	9	27	34	33	18	26	25	29	42	33	31	32	38	42	36	43	16	9	9	0	26	44	17	26.9
	Minimum	58	42	40	45	52	46	42	46	36	40	43	41	39	35	34	50	51	46	46	56	56	51	57	44	14	21	25	51	49	47	43	43.4
Shelbyville	Maximum	32	24	19	25	23	28	23	13	10	26	31	32	18	24	22	28	38	29	29	30	43	43	38	43	13	6	2	− 1	21	39	18	24.6
	Minimum	50	46	47	47	54	47	28	30	41	44	46	43	42	36	36	60	60	40	58	51	59	51	58	59	44	18	24	35	55	60	45	47.5
Smith's Grove	Maximum	34	27	22	33	26	28	26	13	15	30	34	38	22	30	28	29	45	34	32	36	41	48	34	50	16	9	0	2	28	45	21	28.2
	Minimum	44	49	47	47	53	47	30	28	39	43	45	45	41	34	33	54	64	39	56	50	54	56	64	61	29	19	21	32	55	58	26	44.0
Stearns	Maximum	25	21	29	24	28	28	16	16	26	31	36	24	27	29	26	48	34	34	31	45	51	39	52	27	9	8	5	25	40	25	14	28.2
	Minimum	55	45	46	48	53	48	44	27	38	39	44	42	41	35	35	55	56	45	48	51	55	55	53	60	48	27	24	26	55	51	49	45.2
Williamstown	Maximum	33	26	20	26	27	30	24	15	10	27	33	22	20	24	24	29	30	28	29	28	42	42	34	44	13	6	6	0	20	41	18	24.9
Eastern Division.																																	
Ashland	Maximum	46	44	44	46	58	49	42	31	35	43	43	43	40	39	38	60	58	59	41	44	63	57	51	62	58	22	20	26	56	62	60	46.5
	Minimum	28	28	20	23	28	24	27	24	12	20	34	29	29	24	29	32	14	35	31	27	40	43	34	43	22	10	11	11	19	40	26	26.5
Berea	Maximum	58	43	..	43	53	59	39	36	32	41	41	45	39	36	34	59	60	51	51	49	68	57	59	62	48	18	18	26	56	60	59	46.0
	Minimum	38	29	..	32	29	34	25	16	12	29	33	35	23	26	26	42	41	30	30	31	44	46	38	47	17	8	7	9	24	46	15	§23.8
Cumberland	Maximum	57	50	49	49	51	55	34	36	46	42	51	52	45	40	39	53	58	53	54	57	57	64	68	66	23	22	29	48	59	32	48.3	
	Minimum	37	19	20	24	19	20	30	20	14	19	32	29	25	28	24	26	34	30	30	40	42	50	41	46	25	11	9	5	36	42	11	26.9
Farmers	Maximum	62	48	48	47	54	50	42	29	40	41	47	45	41	41	45	57	59	54	45	50	59	58	55	69	65	38	21	29	57	62	62	48.9
	Minimum	35	19	12	23	16	18	20	11	4	17	30	26	23	16	11	27	36	20	24	22	38	48	28	44	16	6	8	− 2	12	42	22	21.7
Heidelberg	Maximum	58	48	49	48	55	45	37	38	40	44	40	44	43	39	35	56	64	55	54	48	58	58	60	66	61	22	22	27	56	58	58	48.0
	Minimum	43	21	16	28	19	26	32	29	12	19	32	28	22	26	30	46	32	26	33	37	44	49	37	44	30	20	6	0	13	28	28	26.3
Maysville	Maximum	56	49	45	49	51	48	42	29	35	39	43	45	40	40	37	54	55	43	44	47	56	54	60	67	55	16	20	25	54	58	48	44.7
	Minimum	34	27	18	29	24	25	27	22	8	21	34	38	27	22	23	31	41	29	27	22	41	41	35	45	18	9	10	4	16	34	28	25.8
Middlesboro	Maximum	58	49	49	48	50	49	43	39	37	41	41	48	45	40	39	51	64	59	55	50	53	60	61	66	63	54	50	44	60	59	58	50.7
	Minimum	41	23	20	26	19	20	29	19	15	22	32	35	27	24	32	26	43	31	36	35	45	50	32	50	26	12	10	8	25	35	26	28.2
Mount Sterling	Maximum	52	34	43	46	53	54	54	20	36	39	45	42	40	34	30	54	56	48	56	58	59	56	60	58	39	16	9	22	44	60	28	42.9
	Minimum	38	22	16	29	25	25	25	16	9	30	27	32	28	19	18	30	26	27	25	28	33	35	40	38	10	5	1	0	16	38	14	22.9
Pikeville	Maximum	52	48	47	43	53	44	54	30	38	45	44	50	40	39	35	57	64	49	49	52	58	56	57	72	37	21	23	25	60	60	34	45.7
	Minimum	39	28	22	26	22	23	22	27	18	21	32	29	32	23	28	29	45	38	32	33	45	50	39	47	27	14	12	9	18	28	32	28.7
Pippapass	Maximum	60	56	50	52	59	49	45	35	40	40	48	45	51	41	40	61	68	71	56	60	63	61	69	67	70	34	23	32	35	66	35	51.4
	Minimum	41	25	20	28	23	22	29	25	14	18	21	25	28	28	25	29	33	28	47	36	50	28	36	52	35	23	27	12	16	7	17	20	15	27.9
Quicksand	Maximum	56	50	51	49	25	45	41	32	41	42	47	49	44	35	34	60	66	43	55	48	59	57	63	71	67	25	21	24	58	63	60	47.8
	Minimum	34	20	16	24	14	19	26	19	10	17	27	29	23	20	26	27	39	29	26	41	36	35	43	26	9	4	0	14	28	24	21	23.7
Richmond	Maximum	57	45	45	45	45	50	45	30	30	36	38	46	45	40	36	37	55	60	45	50	47	60	53	58	60	28	18	20	30	55	60	44.1
	Minimum	37	36	23	32	28	35	28	16	15	30	33	38	23	30	22	29	47	34	34	40	45	40	38	46	28	4	4	5	25	45	26	29.4
Williamsburg	Maximum	58	53	52	50	57	44	33	34	40	44	45	51	45	38	34	58	62	60	50	57	60	64	53	52	23	24	31	54	63	49	48.1	
	Minimum	39	29	20	31	26	31	27	14	11	28	33	36	24	24	20	28	46	28	30	31	43	45	36	46	14	8	4	4	21	43	24	27.1
Winchester	Maximum	56	48	48	48	58	48	43	32	39	43	43	45	41	36	35	60	61	53	56	53	60	59	61	62	50	20	24	32	56	61	60	47.8
	Minimum	35	21	17	28	18	22	24	12	10	23	32	33	20	21	22	27	48	32	30	29	45	46	35	47	15	9	8	1	23	46	20	25.8
Irvington	Maximum	55	40	44	45	53	51	43	26	38	43	43	42	40	36	36	56	57	38	50	46	57	50	55	59	41	14	21	30	52	51	34	43.4
	Minimum	37	27	23	28	29	23	23	15	14	33	35	34	23	31	28	32	37	33	32	35	43	44	37	41	13	9	7	2	28	34	15	27.2
Leitchfield	Maximum	54	42	45	46	54	48	42	27	38	41	44	42	42	36	34	55	56	47	54	48	60	53	54	58	42	15	23	31	53	54	42	44.5
	Minimum	32	27	20	27	28	32	25	14	13	30	34	33	21	28	28	30	39	33	31	35	45	44	33	42	15	9	0	− 1	29	42	18	27.0
Lexington	Maximum	45	42	44	44	51	43	32	29	36	39	45	41	38	35	32	53	57	39	46	52	57	49	55	60	32	15	21	27	53	58	29	41.9
	Minimum	38	25	21	29	26	32	25	15	13	26	32	30	21	25	28	28	35	29	31	32	46	40	34	32	10	7	5	3	27	29	16	25.3
Louisville	Maximum	46	38	42	44	52	51	41	28	37	42	43	41	37	35	35	54	54	37	46	46	57	48	55	60	31	13	21	33	55	52	26	41.5
	Minimum	38	29	25	29	32	31	21	15	16	33	36	30	24	20	29	32	36	32	31	33	45	41	37	31	7	8	8	9	33	26	16	27.1
Do. Bowman Field	Maximum	47	37	43	44	53	50	28	26	37	41	43	40	37	36	35	54	52	35	45	46	57	48	56	60	22	14	22	28	55	51	26	40.9
	Minimum	35	28	22	27	29	34	16	14	26	32	33	35	24	29	27	31	41	32	32	33	45	44	32	43	13	6	6	8	37	37	14	27.5
Mammoth Cave	Maximum	62	46	46	46	54	51	44	29	39	43	44	46	42	42	..	60	63	58	56	48	60	60	57	60	51	28	28	35	59	61	61	49.3
	Minimum	35	23	15	27	26	28	21	9	12	29	37	32	18	26	..	27	24	32	28	32	39	43	31	43	15	8 −	3 −	1	28	45	16	§24.9
Maxwell	Maximum	56	44	43	49	55	49	42	31	38	40	41	44	41	37	35	55	59	46	52	54	58	56	56	64	45	18	26	29	54	58	54	46.1
St. John	Maximum	31	25	20	26	22	28	24	18	9	27	34	33	18	26	25	29	42	33	31	32	38	42	36	43	16	9	9	0	26	44	17	26.9
	Minimum	58	42	40	45	52	46	42	46	36	40	43	41	39	35	34	50	51	46	46	56	56	51	57	44	14	21	25	51	49	47	43	43.4
Shelbyville	Maximum	32	24	19	25	23	28	23	13	10	26	31	32	18	24	22	28	38	29	29	30	43	43	38	43	13	6	2	− 1	21	39	18	24.6
	Minimum	50	46	47	47	54	47	28	30	41	44	46	43	42	36	36	60	60	40	58	51	59	51	58	59	44	18	24	35	55	60	45	47.5
Smith's Grove	Maximum	34	27	22	33	26	28	26	13	15	30	34	38	22	30	28	29	45	34	32	36	41	48	34	50	16	9	0	2	28	45	21	28.2
	Minimum	44	49	47	47	53	47	30	28	39	43	45	45	41	34	33	54	64	39	56	50	54	56	64	61	29	19	21	32	55	58	26	44.0
Stearns	Maximum	25	21	29	24	28	28	16	16	26	31	36	24	27	29	26	48	34	34	31	45	51	39	52	27	9	8	5	25	40	25	14	28.2
	Minimum	55	45	46	48	53	48	44	27	38	39	44	42	41	35	35	55	56	45	48	51	55	55	53	60	48	27	24	26	55	51	49	45.2
Williamstown	Maximum	33	26	20	26	27	30	24	15	10	27	33	22	20	24	24	29	30	28	29	28	42	42	34	44	13	6	6	0	20	41	18	24.9

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

* * * etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville. 3-9-38 1100

05
K E

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

THE LIBRARY OF THE
1938
UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., FEBRUARY, 1938 No. 2

GENERAL SUMMARY.

Weather much warmer than normal in the first two decades caused rather vigorous growth and decided improvement in winter grains. Precipitation lighter than the average, allowed the top soil to drain well and remain generally unsaturated, so that no lifting of consequence resulted from the freezes. These grains, which had entered the winter quite small attained to normal or larger size during this growing interval, and became much more resistant to such inclement weather as might occur later on. Pastures on warm slopes and limestone uplands made considerable growth, while the settling of the soil made possible their use by livestock. Some rye also became available for grazing. The untimely warmth endangered fruit buds, which opened on occasional pear and peach trees in southwestern districts. They showed color in the central counties and became much swollen in northern sections. Many shrubs put out leaves, while early bulbs came up and blossomed. Strawberries started into vigorous growth. Subnormal temperatures with nightly freezes, in the last week checked this unseasonal development. They came just in time to prevent general opening of early blossoms in the southern half of the State. It was believed that most of the buds remained safe, although in vulnerable condition, at the end of the month. Growth in the warm spell was considerably restrained by persistent cloudiness. In the period 15-26th no sunshine of consequence occurred.

While the rainfall was much below the seasonal average, its frequency prevented more than moderate progress with plowing, and interfered with other outdoor work on the farm. The making of tobacco plantbeds began in the second week and continued intermittently, delayed by showers, until the end, at which time probably one-fourth of the required number of beds had been prepared in southern districts. The prevailing atmospheric dampness favored the completion of tobacco stripping and marketing. Some preparation for early gardens occurred in southern districts, but wet soil prevented most of this work. The moderate temperature, with almost no snow or ice, favored all forms of transportation.

TEMPERATURE.

In the period 2d-18th daily mean temperatures ranged from 10° to 25° above the seasonal average. Monthly means varied between 6° and 10° above normal. In the warm period maximum temperatures above 70° were registered on several days, while minima seldom fell below freezing. The coldest day was the 1st, when most stations reported minimum temperatures of 10° to 18°. Extremes for the State were 77° at Princeton on the 12th and 8° at Farmers on the 1st.

PRECIPITATION.

Although comparatively light, precipitation occurred with unusual frequency. Except the 5th and 7th, measureable amounts were reported on every day. The average for the State was about two-thirds of the normal amount for this month. In a few southwestern and extreme eastern counties it was near normal, ranging from 3.0 to 4.0 inches. Most northern and central districts received from 2.0 to 3.0 inches, but less than 2.0 inches occurred in the south-central part of the State. The range for the State was between 1.29 inches at Ravenna and 4.11 inches at Mammoth Cave. Light to moderate showers occurred generally in the periods 10-11th, 14-20th, and 22d-27th. Light showers were reported on most other dates. Some heavy rains occurred in the western counties on the 17th and 18th. Snowfall ranged from mere flurries in central and western districts to about 2.0 inches in some mountain areas.

MISCELLANEOUS.

Rivers.—Frequent moderate rainfall and melting snow in the upper Ohio Basin caused an irregular rise that culminated in stages of 30 to 35 feet along the State borde at the end of the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.19	30.64	1	29.65	19	10.9	27	sw.	19	85	70	67	47
Cincinnati .....Ohio	30.21	30.72	1	29.56	26	9.3	24	nw.	27	83	74	73	28
Evansville..... Ind.	30.20	30.59	7	29.61	19	11.1	32	sw.	1	80	68	68	37
Louisville .....Ky.	30.22	30.70	1	29.65	26	12.2	30	nw.	27	83	69	67	27

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	34.1	74	3	1.91	....	..	..	..	..
1890	45.6	86	16	7.98	....	..	..	..	..
1891	42.2	76	0	4.72	....	..	..	..	..
1892	42.2	70	11	2.92	....	..	..	..	..
1893	37.7	70	3	4.40	....	..	..	..	..
1894	34.6	74	2	4.65	....	..	..	..	..
1895	25.9	80	— 18	0.66	....	5	12	8	8
1896	37.4	81	— 2	3.06	....	9	9	8	12
1897	39.8	76	18	5.75	1.2	11	8	7	13
1898	37.4	77	— 3	1.61	2.6	6	10	8	10
1899	26.2	71	— 30	3.97	10.8	11	9	6	13
1900	32.5	76	— 9	4.68	7.0	12	7	8	13
1901	32.4	71	1	1.27	2.1	6	10	7	11
1902	27.9	69	— 3	1.30	2.8	7	10	6	12
1903	37.5	75	— 16	7.28	6.1	9	11	4	13
1904	35.2	75	— 2	2.32	2.6	7	11	8	10
1905	27.9	67	— 16	2.44	3.9	9	10	5	13
1906	34.7	75	— 12	1.81	5.9	7	16	5	7
1907	35.7	73	— 10	3.06	7.6	9	11	5	12
1908	35.6	70	2	5.56	3.1	13	9	5	15
1909	42.4	75	— 8	8.17	1.0	11	12	4	12
1910	32.9	66	— 12	4.70	11.9	10	12	4	12
1911	42.0	80	11	3.25	0.4	9	10	4	14
1912	29.7	68	— 14	3.08	3.3	7	10	5	14
1913	34.8	77	— 2	2.94	1.4	7	14	6	11
1914	32.2	69	— 2	4.14	7.2	11	10	5	13
1915	41.9	75	13	1.74	0.2	8	9	6	13
1916	35.0	72	— 4	2.99	6.0	9	11	6	12
1917	34.8	80	— 9	3.51	4.7	8	9	8	11
1918	39.3	83	— 8	2.04	0.6	7	11	8	10
1919	38.6	69	12	1.79	1.1	9	11	5	12
1920	35.7	71	0	2.27	3.8	9	8	5	16
1921	41.3	77	11	3.20	8.9	19	8	5	15
1922	41.3	76	4	3.58	0.8	10	8	6	14
1923	34.6	74	— 4	4.67	1.6	10	10	5	13
1924	36.0	71	9	2.56	1.9	9	9	5	15
1925	44.0	76	8	3.91	0.6	9	12	6	10
1926	41.1	70	4	3.14	1.4	19	8	7	13
1927	45.6	81	15	2.65	4.2	11	10	6	12
1928	38.1	72	5	2.48	1.0	10	11	4	14
1929	31.2	68	— 14	3.58	12.6	9	10	7	11
1930	45.1	80	2	3.49	0.5	8	11	7	10
1931	41.6	76	12	3.20	0.3	8	12	4	12
1932	46.7	82	15	3.36	T.	8	14	5	10
1933	37.5	75	— 9	4.25	4.4	12	13	6	10
1934	31.8	72	— 19	2.20	8.0	7	12	7	9
1935	40.1	73	5	2.35	0.6	8	9	7	12
1936	32.1	79	— 14	1.95	5.5	9	12	5	12
1937	38.3	78	11	2.40	4.2	10	8	8	12
1938	45.7	77	8	2.39	0.6	11	7	6	15
Period	37.1	86	— 80	3.25	3.7	9	10	6	12

†49-year averages.

Climatological Data for February, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Eldred G. Young.
Birmingham	Marshall	....	2	.....	.....	.....	.....	.....	.....	.....	2.48	.....	.....	0	7	.....	.....	.....	.....	Tennessee Valley Authority.
Calhoun	Mc lean	437	34	45.2	+ 6.1	75	18	16	1	30	2.52	−0.80	0.52	T.	11	4	8	16	.....	R. C. Bennett.
Earlington	Hopkins	420	44	48.7	+10.9	76	12	17	2	34	2.35	−1.18	0.75	0	8	11	3	14	sw.	Brick Southworth.
Fords Ferry, Dam 50		356	9	.....	.....	.....	.....	.....	.....	.....	2.71	−0.18	1.10	T	11	.....	.....	.....	.....	Lockmaster.
Greenville	Muhlenburg	519	21	46.6	+ 6.6	75	12	15	1	33	2.48	−0.78	0.60	0	9	7	10	11	s.	C. R. Lovell.
Henderson	Henderson	382	16	46.4	.....	74	12	16	1	29	2.87	+0.21	0.74	0	9	5	13	10	e.	Frank Street.
Hopkinsville	Christian	524	42	48.8	+ 9.6	75	12	18	1	31	3.35	−0.22	1.10	T.	9	11	8	s.		W. K. Morris.
Lovelaceville	Ballard	445	9	47.2	+ 6.9	73	12	11	1	34	4.05	+0.33	1.10	0	8	7	8	13	s.	Blaine Malone.
Mayfield	Calloway	364	29	47.6	+ 7.6	72	12	17	1	29	3.29	−0.09	1.44	0	9	9	9	10	s.	Mrs. Joe Payne.
Murray	Graves	412	12	47.0	+ 6.4	70	13	17	1	33	3.50	+0.20	1.54	T.	7	4	12	12	s.	Pat W. Wear.
Owensboro	Daviess	420	41	46.4	+ 9.9	74	12	16	1	30	1.80	−1.05	0.85	T.	10	6	6	16	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	.....	.....	.....	.....	.....	.....	.....	1.91	−0.71	0.40	T.	11	.....	.....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	.....	.....	.....	.....	.....	.....	.....	3.47	+0.16	1.84	T.	10	.....	.....	.....	.....	Joe Lagore.
Princeton	Caldwell	529	31	48.1	+10.3	77	12	17	1	31	2.30	−1.19	0.57	T.	15	5	10	13	n.	Dr. W. L. Cash.
Ramsey, Lock 2 ‡	McLean	384	21	.....	.....	.....	.....	.....	.....	.....	2.62	−0.60	0.42	0	11	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	25	45.5	+ 7.2	76	12	15	1	34	1.79	−1.69	0.07	0	11	7	6	15	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	.....	.....	.....	.....	.....	.....	.....	2.89	+0.07	0.76	0	11	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	.....	.....	.....	.....	.....	.....	.....	2.82	+0.16	0.52	0	15	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	43.4	+ 8.9	74	12	16	1	34	2.31	−0.55	0.63	0.5	9	10	3	15	w.	C. E. Barret.
Bowling Green	Warren	500	42	48.3	+ 9.3	76	12	19	1	30	1.52	−2.10	0.36	1.0	11	6	10	12	s.	Mrs. Lillie G Causey.
Brownsville, Lock 6‡	Edmonson	410	21	.....	.....	.....	.....	.....	.....	.....	2.15	−0.82	0.38	T.	14	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	47	.....	.....	.....	.....	.....	.....	.....	1.56	−1.94	0.40	T.	11	.....	.....	.....	.....	T. A. Lassis
Carrollton, Lock 1	Carroll	480	39	.....	.....	.....	.....	.....	.....	.....	2.28	−0.31	0.44	0	9	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 86	Campbell	489	12	.....	.....	.....	.....	.....	.....	.....	2.62	+0.23	0.63	T.	13	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	14	44.6	.....	74	12	13	1	36	2.16	−0.97	0.37	1.0	14	8	4	16	w.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	47.0	+ 6.7	74	12	17	1	34	2.04	−0.93	0.36	0	12	4	7	17	s.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	44.9	+ 6.4	64	6†	20	1	32	1.57	−1.75	0.43	0	5	8	7	18	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	45.2	+ 8.4	74	12	15	1	41	1.81	−1.43	0.43	T.	11	8	2	18	se.	Lockmaster.
Gest, Lock 8	Henry	490	28	.....	.....	.....	.....	.....	.....	.....	2.72	−1.32	0.52	1.0	10	.....	.....	.....	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	.....	.....	.....	.....	.....	.....	.....	2.65	+0.40	0.66	.....	13	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	45	46.4	+10.1	75	12	15	1	35	1.71	−1.90	0.30	0	12	.....	.....	.....	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	.....	.....	.....	.....	.....	.....	.....	1.97	−1.11	0.32	0.8	15	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	40	46.0	+ 9.3	73	12	17	1	27	2.15	−0.92	0.42	T.	9	7	5	16	sw.	W. J. Piggot.
Lancaster	Garrard	1032	12	.....	.....	.....	.....	.....	.....	.....	2.11	−0.85	0.53	0	13	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	42	45.8	+ 9.4	75	12	18	1	29	2.87	−0.51	0.54	0	13	6	8	14	sw.	H. H. Willis.
Lexington	Fayette	989	54	43.8	+ 7.9	73	12	15	1	27	2.49	−0.13	0.41	1.4	14	5	4	19	.....	U. S. Weather Bureau.
LittleHickman, Lock 8¶	Jessamine	560	28	.....	.....	.....	.....	.....	.....	.....	1.81	−1.55	0.40	3.0	8	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	.....	.....	.....	.....	.....	.....	.....	2.77	−0.10	0.58	0	9	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	45.2	+ 7.0	73	12	18	1	28	2.16	−1.39	0.47	T.	14	3	8	17	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	....	44.8	.....	74	12	18	1	31	1.63	.....	0.47	.....	10	.....	.....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	8	46.4	.....	79	12	11	1	37	4.11	.....	0.80	0	14	7	8	13	ne.	Ivan J. Ellsworth.
Munfordville	Hart	600	9	.....	.....	.....	.....	.....	.....	.....	1.94	−1.66	0.54	0	9	.....	.....	.....	.....	Mrs. M. W. Price.
St. Jonn	Hardin	777	42	45.1	+ 9.7	74	11†	11	1	33	2.40	−1.22	0.42	T.	8	19	8	1	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	1.99	−1.15	0.42	0	10	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	45	48.0	+ 8.9	71	12	15	1	32	3.49	+0.09	0.61	1.3	14	8	0	20	nw.	Miss RuthRatta,
Shepherdsville	Bullitt	500	1	.....	.....	.....	.....	.....	.....	.....	1.91	.....	0.56	T.	10	5	7	16	sw.	A. McLeod.
Smith's Grove	Warren	607	....	46.8	.....	75	12†	18	1	29	1.78	.....	0.28	0	12	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	56.2	.....	72	12	13	1	32	2.71	.....	0.53	0	17	.....	.....	.....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	.....	.....	.....	.....	.....	.....	.....	2.85	−0.75	0.40	0.8	12	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	35	44.0	+10.2	72	12†	13	1	36	3.08	+0.37	0.76	0	8	8	4	16	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	21	.....	.....	.....	.....	.....	.....	.....	1.90	−1.61	0.60	T.	13	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	7	.....	.....	.....	.....	.....	.....	.....	1.79	−0.76	0.33	2.8	14	5	5	18	sw.	W. A. Worthington.
Ashland	Boyd	534	21	44.5	+ 6.8	72	12†	17	1†	37	2.82	−0.76	0.70	0	14	6	7	15	sw.	Lockmaster.
Berea	Madison	1070	35	49.4	+ 7.6	73	12	12	1	36	2.60	−0.59	1.00	2.1	14	9	8	16	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	.....	.....	1.70	−1.20	0.30	2.2	13	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	1	47.5	.....	69	7†	12	1	38	3.67	.....	1.22	0	9	11	6	5	sw.	C. Bertrand Fields.
Cynthiana	Harrison	684	20	.....	.....	.....	.....	.....	.....	.....	2.03	−1.03	0.48	T.	7	.....	.....	.....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	.....	.....	.....	.....	.....	.....	.....	2.89	−0.10	0.78	0	13	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	31	43.2	+ 6.3	73[a]	13	8[a]	1	42[a]	2.17	−0.93	0.48	1.3	10	8	2	18	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	18	.....	.....	.....	.....	.....	.....	.....	1.78	−1.31	0.51	.....	7	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	.....	.....	.....	.....	.....	.....	.....	1.96	−1.01	0.40	.....	18	.....	.....	.....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	.....	.....	.....	.....	.....	.....	.....	2.18	−0.65	0.43	0.8	19	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	14	.....	.....	.....	.....	.....	.....	.....	1.55	−2.91	0.50	.....	9	.....	.....	.....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	3	45.6	.....	76	12	13	1	37	2.16	−0.90	0.67	3.0	13	4	4	20	sw.	Lockmaster.
Jackson	Breathitt	776	14	.....	.....	.....	.....	.....	.....	.....	2.51	.....	0.36	6.0	10	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	12	.....	.....	.....	.....	.....	.....	.....	2.01	−1.81	0.41	2.0	14	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	35	.....	.....	.....	.....	.....	.....	.....	2.38	−0.38	0.42	1.0	9	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	43.8	+ 8.7	71	12†	12	1	37	3.35	+0.25	0.75	0.5	13	3	11	14	sw	Lockmaster.
Middlesboro	Bell	1128	33	48.2	+ 8.4	70	11	16	1	32	2.47	−1.55	0.60	0.0	8	13	11	4	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	41.6	+ 7.3	76	13	12	1	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	....	1	.....	.....	.....	.....	.....	.....	.....	2.24	.....	0.95	.....	6	.....	.....	.....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	.....	.....	.....	.....	.....	.....	.....	2.85	+0.22	0.71	1.8	13	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	.....	.....	.....	.....	.....	.....	.....	2.62	.....	0.45	1.6	16	.....	.....	.....	.....	Manuel Robinson.
Pikeville	Pike	636	2	46.6	.....	74[a]	13	17	1	32	3.62	+0.48	0.79	.....	13	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	.....	.....	.....	.....	15	1	.....	2.84	....	0.38	2.0	11	4	7	17	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	44.8	+ 4.1	74[a]	12†	14[a]	1	43[a]	2.41	−1.29	0.71	2.0	6	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	.....	.....	.....	.....	.....	.....	.....	1.29	−1 78	0.10	0	9	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	41	45.6	+ 8.8	70	12†	14	1	27	1.95	−1.23	0.30	0	12	2	0	26	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	.....	.....	.....	.....	.....	.....	.....	2.18	−1.19	0.38	0.8	13	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	.....	.....	.....	.....	.....	.....	.....	3.07	−0.86	0.64	.....	11	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	41	46.8	+ 7.4	75	13	14	1	38	1.52	−1.99	0.33	0.2	11	10	7	11	.....	Wadely West.
Willow, Lock 13	Lee	646	18	.....	.....	.....	.....	.....	.....	.....	2.09	−0.79	0.65	1.5	12	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	....	44.2	.....	72	12	14	1	28	1.93	.....	0.40	0	15	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	47.6	+ 8.6	77	12	8	1	42	2.37	−0.96	1.04	0.6	11	7	6	15	.....	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries.
T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.;
Oneonta, California, Ky.
** Precipitation by U. S. Engineers.

Daily Precipitation for February, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam.....G.																																
Birmingham.....T.									.09					.21	* 1.00	* 1.18																2.48
Calhoun.....G.		.05				.39				.42			.32		.52		.06		.42	.14	.13	.05			.02							2.52
Earlington.....G.										.15				.75	.30	.05	.15	.45	.35			.15										2.35
Fords Ferry Dam 50‖.....O.			T.			T.	.09			.01	.05			.88	T.	.32	.03	1.10	4*	.02		.22	.01		T.	T.						2.71
Greenville.....G.						.40				.10				.55	.20	.02	.10	.60	.24			.26										2.48
Henderson.....O.						.28				.35				.19	.31	.10	.41	.74	.29	T.		.20		T.	T.							2.87
Hopkinsville.....C.						.72				.05				.54	.24	.08	.05	1.10	.30			.27										3.85
Lovelaceville.....M.						.10				.10				.75	.40		1.10	1.00	.35		.25											4.05
Mayfield.....M.						.12			T.	.14	T.			.41	.39	.07	.33	1.44	.20			.16										3.29
Murray.....T.						.15				.15				.85	.81			1.54	.18			.17										3.50
Owensboro.....O.			T.			.18				.18	.07			.26	.20	.13	.35	.18	.03			.22		T.	T.	T.						1.80
Owensboro, Dam 46 ‖.....O.	T.		.05			T.	.22			.10	.11			.19		.20		.30	.40	.08		.15	.11	T.	T.	T.						1.91
Paducah.....O.				.01		T.	.18			T.	.13			.30	.05	.35	.25	1.84	.62	T.		.24			T.							3.47
Princeton.....K.			.01			.58				.01	.01		T.	.40	.26	.05	.22	.57	.20	.01	.01	.15		.01	.01							2.39
Ramsey, Lock No. 2 ‖.....G.			.05				.39			T.	.42			.32		.52		.16	.42	.14		.13	.05		T.	.02						2.62
Russellville‖.....G.			.05				.18				.08			.35	.10	.13		.13	.47	.11		.12	.07									1.79
Uniontown, Dam 49‖.....O.			.02				.28			.03	.08			.18		.30	.04	.76	.51	T.		.17	.02		T.							2.39
Central Division																																
Addison, Dam 45. ‖.....O.	T.		.12		T.	.01	.51			.22	.02			.14		.22	.01	.36	.52	.26		.10	.14		.06	.13	T.					2.82
Anchorage.....O.	.03					.30				.20	.40				.01	T.	.63	.32	.23			.19		T.								2.31
Bowling Green.....G.			T.	T.			.20			.01	.12			.28		.20	.03	.05	.36	.10			.15		.02							1.52
Brownsville, Lock No. 6‖.....G.			.02	.04			.30			.05	.24	.29		.20	.04	.18	T.	.10	.38	.19		.10			.02	T.						2.15
Burnside‖.....C.			.08				.20			.06	.12			T.	.10	.40			.25	.20		.12	.2[illegible]		T.	.05						1.86
Carrollton ‖ Lock No. 1..K.							.36			.19	.44						.34	.34	.39			.09	.11		.03							2.29
Cold Spring, Dam 36‖.....O.				.02		T.	.41			.18	.52	.07		T.			T.	.15	.21	.63		.19	.15	T.	.02	T.	.02					2.62
Danville.....K.				.03			.28			.12	.14			.26	.10	.87		T.	.10	.35		.12	.19		.07	.02	.01					2.16
Dix Dam, Burgin ‖‖.....K.		.04				.35			.15				.20	.06	.36		.02	.14	.30		.12	.18		.12	T.							2.04
Eubank.....C.											.40				.43	.17						.34	.28									1.57
Frankfort‖, Lock No. 4.....K.			.09				.43			.08	.31	T.		.01		.01	T.	T.	.84	.30		.08	.13	T	.08	T.						1.81
Gest, Lock No. 3 ‖.....K.			.10		T.	T.	.52			.30	.44							.11	.50	.41		.20	.09		.05	T.						2.72
Grant, Dam 39‖.....K.			.05		T.	T.	.21			.36	.47	.02	T.	.05			T.	.20	.26	.66		.20	.12		.02	.03	T.					2.65
Greensburg.....G.							.30			.06	.07	.06			.02	.19		.09	.21	.25		.16	.22		T.	.08						1.71
High Bridge, Lock No. 7‖.....K.			.05	.03		T.	.32			.15	.05			.08	.09	.31	T.	.02	.15	.29		.09	.19	T.	.09	.04	.02					1.97
Irvington.....O.			.07	T		.42				.25	T.			.23	.15	T.	.24	.27	.28	T.		.22		T.		T.						2.15
Lancaster‖.....K.		.06				.20			.10	.21			.06	.28	.83			.09		.15	.11	.25		.10	.02							2.11
Leitchfield.....G.			.12			.48			T.	.22	T.			.56	.40	.07	.22	.54	.20	.07		.16			.02	.01						2.87
Lexington ***.....K.			.13			.41				.30	.28		T.	.30	.07	.04	.02	.17	.27			.32	.02	.08	T.	.08						2.49
Little Hickman, Lock No. 8 ‖.....K.							.40			.20				.25	T.	.25		T.	.10	.28		.18	.18			T						1.81
Lockport, Lock No. 2 ‖.....K.			.22			T.				.47	.55							.42	.58			.24	.15	T.	.07	T.	.07					2.77
LOUISVILLE***.....O.			.03			.44			.15	.17	.15			.02	.01	.02	.25	.35	.30	T.		.21		.01	T.	.04						2.16
Do, Bowman Field.....O.	T.		.03			.47				.18	.24			.02	T.	.02	.24	.22	.14	T.	T.	.07		T.		T.						1.63
Mammoth Cave.....G.	.40		.03			.32	T.		T.	.22	.20	T.		.30	.18	.04	.80	.45	.19	.80		.15		.03	T.							4.11
Munfordville.....G.			.08	T.			.21			T.	.12	T.		.35	T	.20		.09	.54	.25	T.	.10	T.		T.	T.						1.94
St. John.....S.			T			.42				.15				.18	.35		.15	.70	.25			.20		T.								2.40
Salvisa, Lock No 6 ‖.....K.		.12	T.				.42			.50	T.			.15		T.		.10	.20	.80		.15	.15	T.	.10	T						1.99
Shelbyville.....S.			.12			.61				.28	.55			.05		.05	.06	.58	.57	.08	T.	.30		.14	.05	.05						3.49
Shepherdsville.....S.			.03			.84				.17				.13	.18	.21		.66	.17	T.		.14		T.		.03						1.91
Smith's Grove.....G.			.01			.22				.07	.11			.27	.27	.17		.09	.28	.10		.05	.09		T	T.						1.73
Stearns.....C.		.02	.01			.15			.12	.37	.27		.07	.53	.24	.02	.01	.32	.13			.32	.01	.08	T.	.04						2.71
Tyrone, Lock No. 5‖.....K.			.24	T.		T.	.40			.28	.25			.18		.05		T.	.18	.32		.10	.10	.02	.05	T.						2.35
Williamstown.....G.			.10			.76				.30	.55							.30	.65	.12		.30										3.08
Woodbury, Lock No. 4‖.....G.			.03				.12			.04	.12			.40	.02	.14	.02	.20	.60	.10		.03	.08		T.							1.90
Eastern Division																																
Annville.....C.			.02				.18			.03	.10	.26			.21	.21		T.	.15	.13	T.	.03	.83		.08	.02	.04					1.79
Ashland ‖.....O.			.03	.05			.39			.19	.10	.70		.13	.01				.14	.28			.24		.01	.01	.04					2.32
Berea.....K.			.07			.27				.55	.04	.02		.21	1.00	.09			.18	T.		.12	.06	.03	.15	.01						2.60
College Hill, Lock No. 11‖.....K.			.05				.23			.16	.22			.06	.03	.30		T	.10	.15		.06	.22		.10	.02						1.70
Cumberland.....C.										.70		1.22		.32	.30					.40		.06	T.	T.	.15	.29	.28					3.67
Cynthiana‖.....L.			.10				.45			.27	.43								.32	.21			.25		T.		T.					2.03
Falmouth‖.....L.			.09			T.	.43			.18	.78	.07		.06			T.	.16	.33	.52		.14	.09	T.	.08	T.	.01					2.89
Farmers ‖.....L.			.23				.48			.25	.31								.17	.31		.04	.25		.08	.05						2.17
Flemingsburg‖.....K.							.51			.26		.07							.17	.47		.19					.11					1.78
Ford, Lock No. 10 ‖.....K.			.07	T.			.40			.10	.35			.11	.03	.27	T.	T	.07	.15		.11	.21	T.	.05	.04	T.					1.96
Greenup, Dam 30‖.....O.			.02	.02			.43			.26	.18	.42		.04					.21	.35			.25		T.	T.						2.18
Hazard‖.....K.	.05						.25				.60			.20					.10			.05		.10		.12	.08					1.55
Heidelberg, Lock No. 14‖.....K.			.06	T.			.16			.06	.18	.01			.20	.67			.17	.17			.28		.07	.02	.10					2.16
Jackson.....K.			.22				.20			.28	.33		.08	T.	.05	.80			.36	.22	T.	.32					.15					2.51
Jenkins‖.....B.							.18			.02	.28	.10		.05	.14	.24			.41	.07	.02		.28		.08	.12	.02					2.01
Lonisa‖.....B.							.28			.40	.20	.40							.18	.42			.40		.05	.05						2.38
Maysville‖, Dam 33.....O.			.05				.48			.32	.75	.27		.05				T	.43	.62		.05	.27		.01	.03	.02					3.35
Middlesboro.....C.			.60							.04				.44		.15			.43			.04	.22			.05						2.47
Mount Sterling.....C.																																
Oneida.....C.												.95		.06		.33			.30	.23			.37									2.24
Oneonta Dam 35 ‖.....O.			.07	.02			.31			.48	.43	.02					.02	.36	.20	.61		.17	.14	T.	.02	T.	T.					2.85
Paintsville ‖.....B.			.03				.10			.39	.19	.02		.02	.25	.28		.01	.26	.36			.45	.01	.08	.08	.09					2.62
Pikeville‖.....B.			T.			.13	T.			.16	.69			.79	.03	.24	T.	T.	.61	.02		.10	.35	T.	.34	.24	.02					3.62
Pippapass.....K.			.02				.24			.38		.36		.31	T.	.22	T.	.30	.25			.09	.34	T.	.33							2.84
Quicksand‖.....K.			.09			.18			.48		.29					.71		.08	.10	.18			.35		T.							2.41
Ravenna, Lock No. 12‖.....K.			T.				.16			.15	.13			.05	.09	.16	T.	T.	.17			.20	T.	.18	T.	T.						1.29
Richmond.....K.			.05	T.			.25			.30	.05					.30	.20		.16	.10		.20	.15		.05	.15						1.95
Valley View, Lock No. 9‖.....K.			.10	T.			.38			.30	.10					.10	.29		.08	.12		.30			.13	.23	.06	.04				2.18
Vanceburg, Dam No. 32 ‖.....O.			.07	.04			.64			.28	.45	.33		.08					.58	.20		.30					.10					3.07
Williamsburg‖.....C.							.13				.18	.08			.16	.22			.33	.17		.20	.02	.03	T.	T.						1.52
Willow, Lock No. 13‖.....K.			.05				.15			.16	.11				.15	.65			.16	.12		.29		.15	.08	.02						2.09
Winchester.....K.			.07			.40				.18	.20			.28	.13	.07	.02	.04	.17	.02	T.	.28	.02	.03	T.	.02						1.93

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking: (K) Kentucky: (S) Salt: (G) Green: (C)Cumberland (T) Tennessee: (O) Ohio: (M) Mississippi.

Daily Temperatures for February, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	42	50	53	61	69	64	66	64	68	62	72	72	71	65	49	52	64	58	52	38	43	46	42	38	38	42	57	46	..	..	..	55.0
	Minimum	17	34	48	46	46	52	32	33	50	46	46	46	58	44	32	34	46	48	32	32	34	37	36	32	32	31	34	24	..	..	..	38.6
Calhoun	Maximum	22	42	51	62	62	69	63	41	66	69	53	74	76	78	55	57	53	64	59	43	39	41	45	48	59	42	48	58	..	..	..	54.0
	Minimum	16	39	38	32	41	54	29	31	36	40	43	43	48	44	36	32	36	52	38	31	33	34	36	31	31	33	34	23	..	..	..	36.5
Earlington	Maximum	42	54	60	65	67	68	60	66	69	64	74	76	75	69	53	56	66	62	51	37	43	47	45	44	43	45	58	53	..	..	..	57.6
	Minimum	17	34	49	47	45	64	31	32	51	46	48	54	60	43	35	34	52	46	32	32	34	39	37	30	29	35	34	25	..	..	..	39.8
Greenville	Maximum	43	52	58	64	70	66	60	65	66	61	74	75	73	66	49	64	66	69	49	39	42	47	45	40	39	44	59	49	..	..	..	56.2
	Minimum	15	30	47	42	48	51	30	32	50	46	46	48	66	41	32	32	49	49	29	24	31	36	35	28	25	30	31	22	..	..	..	37.1
Henderson	Maximum	42	51	63	62	68	65	56	65	70	63	71	74	72	65	43	61	58	59	51	39	41	45	47	43	40	43	56	48	..	..	..	55.4
	Minimum	16	33	48	33	50	52	30	37	47	42	45	51	57	41	31	32	45	42	32	31	32	32	35	30	28	34	34	24	..	..	..	37.3
Hopkinsville	Maximum	46	56	57	66	70	65	64	66	67	64	74	75	71	68	56	56	66	60	55	40	65	48	62	48	40	47	61	45	..	..	..	58.6
	Minimum	18	34	41	43	60	53	33	35	45	51	49	52	66	44	36	36	60	48	30	32	33	39	38	28	29	32	31	25	..	..	..	38.9
Lovelaceville	Maximum	39	49	63	65	67	67	68	64	65	64	71	73	72	65	62	56	66	56	47	37	38	44	48	46	41	44	61	55	..	..	..	56.0
	Minimum	16	30	46	44	51	53	29	31	50	47	64	49	65	41	35	34	50	41	29	31	32	33	34	27	29	33	28	26	..	..	..	38.5
Mayfield	Maximum	42	52	58	64	65	64	61	63	64	64	68	72	69	65	52	56	63	63	51	36	41	48	49	47	43	43	54	54	..	..	..	56.3
	Minimum	17	33	47	47	52	52	32	39	51	49	46	49	66	43	35	35	60	42	29	31	32	37	35	26	29	33	32	26	..	..	..	38.8
Murray	Maximum	50	50	58	60	61	62	52	62	64	63	64	63	70	63	50	54	64	62	47	36	41	43	43	43	41	42	61	61	..	..	..	54.0
	Minimum	17	30	49	49	48	57	34	38	49	50	49	52	58	43	36	36	51	45	30	32	33	39	39	27	27	33	34	26	..	..	..	39.9
Owensboro	Maximum	40	60	63	68	68	68	64	60	64	68	63	70	74	72	71	58	69	60	67	60	40	42	43	40	36	42	50	60	..	..	..	56.0
	Minimum	16	32	40	43	43	43	52	30	36	43	43	43	48	54	39	30	31	43	47	30	31	35	34	29	26	33	32	24	..	..	..	36.8
Paducah	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	45	53	62	64	70	64	57	67	68	62	75	77	73	65	52	56	64	62	52	39	43	49	46	43	41	45	61	49	..	..	..	57.0
	Minimum	17	36	50	43	40	54	32	36	43	48	47	50	68	43	35	35	52	44	31	33	34	39	37	29	30	32	30	26	..	..	..	39.2
Russellville§§	Maximum	42	61	53	65	68	66	53	64	69	59	73	76	72	50	39	56	65	69	42	37	46	46	41	36	39	44	61	48	..	..	..	54.1
	Minimum	16	17	35	45	46	50	32	33	40	47	50	51	53	47	37	35	36	60	41	31	31	33	36	29	28	28	32	24	..	..	..	36.9
Central Division.																																	
Anchorage	Maximum	37	55	57	59	60	61	54	64	67	62	65	74	72	66	44	48	54	60	49	36	35	45	39	36	32	38	40	40	..	..	..	51.9
	Minimum	16	29	38	29	43	48	32	30	42	41	45	58	36	27	31	45	47	33	31	30	31	31	30	26	31	35	30	22	..	..	..	34.9
Bowling Green	Maximum	41	52	54	65	69	68	59	65	69	61	72	76	74	68	52	56	63	60	68	42	48	47	43	40	35	44	60	55	..	..	..	57.0
	Minimum	19	30	48	45	46	55	35	35	46	61	48	51	65	47	31	35	49	62	33	33	33	40	39	32	31	29	33	29	..	..	..	39.6
Danville	Maximum	38	50	51	63	68	65	55	65	67	63	71	74	72	67	49	43	61	61	69	35	45	47	44	38	34	39	52	45	..	..	..	54.3
	Minimum	18	25	43	39	35	53	32	29	43	42	41	44	57	43	28	29	37	62	38	30	29	32	35	30	23	27	33	20	..	..	..	34.9
Dix Dam	Maximum	40	56	64	62	67	65	55	64	68	64	70	74	74	71	60	46	63	66	60	35	48	46	40	33	39	51	45	..	..	..	..	55.6
	Minimum	17	29	45	42	40	54	25	33	46	46	44	48	67	52	30	33	43	56	35	32	33	36	37	33	26	31	36	24	..	..	..	38.3
Eubank	Maximum	50	50	56	69	61	64	55	55	61	61	61	62	62	64	59	61	63	57	37	40	43	47	48	38	36	36	45	45	..	..	..	54.1
	Minimum	20	27	35	37	38	51	32	31	42	47	44	44	52	32	33	31	66	62	32	31	35	32	34	30	32	26	36	30	..	..	..	36.5
Frankfort	Maximum	35	57	58	58	67	64	56	64	68	64	71	74	72	68	54	48	61	61	57	37	36	48	45	39	34	40	51	44	..	..	..	54.6
	Minimum	15	16	37	36	33	51	35	27	42	43	41	47	68	44	28	32	45	54	36	31	31	35	36	33	26	31	35	22	..	..	..	35.7
Greensburg	Maximum	43	57	55	65	69	67	66	65	69	64	72	75	73	66	52	54	65	63	69	38	44	48	45	40	34	42	58	58	..	..	..	57.0
	Minimum	15	25	46	42	37	52	31	30	42	45	44	42	65	44	32	32	43	53	31	30	30	35	35	30	26	26	33	20	..	..	..	35.9
Irvington	Maximum	40	52	59	61	67	62	56	62	67	62	69	73	72	66	48	45	60	58	66	36	38	45	41	39	38	40	52	45	..	..	..	53.7
	Minimum	17	35	47	39	50	55	34	36	50	43	54	47	58	43	29	32	45	54	32	32	31	35	38	31	26	30	35	23	..	..	..	38.4
Leitchfield	Maximum	40	52	55	62	68	63	54	64	68	62	71	78	73	66	49	48	61	58	57	34	40	45	42	37	35	40	54	46	..	..	..	54.2
	Minimum	18	32	47	45	47	52	32	35	50	45	44	50	56	44	31	32	48	42	31	30	31	36	35	30	27	28	33	22	..	..	..	37.4
Lexington	Maximum	38	55	50	58	66	61	61	63	65	61	71	73	71	61	34	46	60	59	59	33	36	46	40	34	33	37	47	35	..	..	..	51.5
	Minimum	15	29	45	39	43	41	34	34	46	40	40	46	54	34	27	30	42	54	32	30	30	33	34	29	28	31	27	20	..	..	..	35.1
Louisville	Maximum	37	55	58	59	66	61	50	62	67	59	66	73	72	64	37	46	60	58	49	34	35	45	39	38	34	39	49	37	..	..	..	51.8
	Minimum	18	32	40	34	45	43	38	37	53	40	42	47	55	36	28	32	46	44	33	30	30	35	36	31	27	33	30	22	..	..	..	36.5
Do. Bowman Field	Maximum	38	54	63	60	66	61	54	63	68	47	66	74	73	54	36	46	59	60	50	35	36	45	29	35	32	39	49	36	..	..	..	51.2
	Minimum	18	31	46	34	45	51	38	32	49	47	44	47	61	44	28	33	45	56	45	32	32	35	36	33	27	32	35	28	..	..	..	38.5
Mammoth Cave	Maximum	46	55	61	64	69	69	67	64	71	62	73	76	75	73	58	54	63	60	65	31	45	48	48	41	38	44	60	30	..	..	..	57.0
	Minimum	11	29	46	43	48	60	30	30	47	44	44	46	66	36	32	32	46	51	29	20	29	35	35	29	26	26	31	19	..	..	..	35.7
St. John	Maximum	40	52	54	62	67	65	57	60	67	65	74	74	72	70	61	44	60	62	59	36	38	46	47	38	36	40	53	45	..	..	..	54.2
	Minimum	11	29	46	43	45	52	30	35	34	42	43	44	67	43	29	31	41	51	31	31	30	34	35	30	26	28	26	22	..	..	..	36.0
Shelbyville	Maximum	35	52	53	59	63	61	53	63	63	63	61	71	70	67	46	45	59	58	54	36	34	45	42	36	31	38	50	43	..	..	..	51.1
	Minimum	15	28	39	32	41	51	34	31	42	39	40	49	54	42	25	30	41	52	34	30	29	32	34	30	22	29	34	21	..	..	..	36.0
Smith's Grove	Maximum	42	54	58	68	69	67	56	64	67	59	78	75	75	54	39	55	64	60	54	39	47	48	41	35	34	43	59	48	..	..	..	54.9
	Minimum	18	29	47	45	50	53	35	35	44	49	47	44	55	32	35	34	49	54	30	32	32	38	34	30	28	33	39	40	..	..	..	38.6
Stearns	Maximum	46	58	52	65	66	68	52	61	67	59	72	70	70	59	57	50	61	60	34	40	46	39	35	31	39	56	40	..	..	..	..	63.7
	Minimum	13	44	44	42	56	56	36	46	55	51	52	52	55	34	34	45	50	51	30	30	36	36	31	26	24	34	28	18	..	..	..	38.7
Williamstown	Maximum	38	51	56	55	65	61	55	65	68	63	65	72	72	69	50	46	58	57	55	46	36	45	45	38	34	36	43	40	..	..	..	52.6
	Minimum	13	26	43	29	55	53	34	29	49	39	36	43	56	42	25	29	40	54	39	29	27	33	34	31	20	29	33	19	..	..	..	35.3
Eastern Division.																																	
Ashland	Maximum	34	57	56	54	68	68	57	64	68	65	55	72	72	65	48	47	66	67	67	49	41	47	46	40	35	40	47	41	..	..	..	54.9
	Minimum	17	37	35	39	31	43	40	25	36	41	38	43	46	44	28	29	34	51	46	32	31	31	38	30	27	30	34	22	..	..	..	34.1
Berea	Maximum	48	59	54	62	67	67	58	63	65	67	69	73	70	66	48	56	60	64	64	36	40	48	47	38	37	35	52	48	..	..	..	55.8
	Minimum	12	48	47	39	48	40	35	32	50	44	48	48	60	45	29	30	40	50	33	31	30	33	35	31	31	25	34	22	..	..	..	37.0
Cumberland	Maximum	48	59	55	62	61	64	69	63	62	62	65	69	69	65	50	59	62	67	62	46	65	52	50	40	34	35	54	52	..	..	..	57.2
	Minimum	12	27	47	30	40	34	38	25	48	54	52	50	50	49	31	36	38	53	33	32	31	36	36	34	26	27	29	25	..	..	..	37.8
Farmers	Maximum	33	61	68	60	70	67	57	68	70	55	71	70	73	71	62	52	..	67	58	42	39	47	47	40	36	37	34	44	..	..	..	§55.3
	Minimum	8	21	43	39	28	40	36	21	33	40	35	44	43	42	25	28	..	35	38	29	29	27	35	27	22	27	31	17	..	..	..	§31.2
Heidelberg	Maximum	41	61	55	62	68	68	60	65	67	67	72	76	72	69	50	33	60	65	67	41	41	49	49	41	34	38	62	47	..	..	..	56.1
	Minimum	13	24	34	38	31	40	40	27	27	57	42	48	44	50	30	32	33	46	41	34	34	32	38	33	28	30	36	25	..	..	..	35.2
Maysville	Maximum	34	56	54	50	68	62	55	63	68	64	51	71	71	68	51	48	62	62	55	42	39	43	40	35	38	43	53	..	..	..	..	53.0
	Minimum	12	27	36	30	32	45	39	26	39	41	26	44	51	43	28	30	37	51	42	32	31	32	37	30	26	31	34	22	..	..	..	34.5
Middlesboro	Maximum	53	55	54	59	65	66	65	60	65	64	70	69	69	68	55	57	61	66	64	55	58	52	47	42	37	39	58	54	..	..	..	58.0
	Minimum	16	27	42	40	31	55	40	28	37	58	58	42	48	52	34	40	44	52	44	33	33	41	40	32	28	27	34	28	..	..	..	38.5
Mount Sterling	Maximum	48	52	50	58	62	60	45	65	68	60	60	74	76	48	35	48	48	36	34	36	35	38	38	38	36	38	58	58	..	..	..	48.6
	Minimum	12	38	37	40	41	42	38	33	42	41	40	50	48	36	28	32	38	49	32	28	28	34	32	33	28	32	38	29	..	..	..	34.7
Pikeville	Maximum	42	60	68	62	65	71	54	64	67	57	73	72	74	59	36	48	59	72	72	38	48	51	45	39	34	33	..	43	..	..	..	§55.7
	Minimum	17	24	44	39	39	40	43	26	33	56	46	51	46	53	33	32	36	45	53	36	38	36	39	36	29	31	35	27	..	..	..	37.6
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Quicksand	Maximum	15	30	39	40	38	48	40	26	40	34	45	49	49	51	32	31	35	33	35	32	32	24	40	34	28	34	29	25	..	..	..	35.3
	Minimum	45	64	55	65	72	60	..	67	68	67	72	74	74	68	40	44	63	67	69	38	45	43	48	49	38	37	42	..	..	..	..	§66.7
Richmond	Maximum	14	23	31	36	29	37	..	24	30	41	41	45	48	46	28	30	31	44	34	31	31	30	36	29	26	28	33	19	..	..	..	§31.9
	Minimum	28	43	56	56	60	65	65	54	65	65	48	70	70	70	50	34	46	60	64	60	36	46	60	40	40	34	42	48	..	..	..	52.3
	Maximum	14	20	47	43	44	56	38	36	48	55	42	48	56	50	32	30	42	56	54	32	32	34	37	30	26	28	34	23	..	..	..	38.8
	Minimum	14	20	47	43	44	56	38	36	48	55	42	48	56	50	32	30	42	56	54	32	32	34	37	30	26	28	34	23	..	..	..	38.8
Williamsburg	Maximum	51	54	57	66	70	72	56	61	71	61	73	73	75	61	42	56	62	72	68	50	51	49	60	40	34	50	61	42	..	..	..	58.1
	Minimum	14	31	39	38	37	47	36	30	37	51	50	42	46	40	35	38	49	49	49	30	30	33	32	39	31	23	22	29	21	..	..	35.6
Winchester	Maximum	36	56	52	58	66	64	48	60	64	60	71	68	70	72	50	52	56	62	58	50	51	49	60	40	34	50	61	42	..	..	..	50.9
	Minimum	14	28	46	40	40	54	35	32	44	54	40	46	56	52	28	30	40	56	50	30	29	32	36	31	24	28	32	21	..	..	..	37.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 3-21-38-1100

.05
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

THE LIBRARY OF THE
MAY 6 1938
U.S. DEPARTMENT OF AGRICULTURE

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., MARCH, 1938 No. 3

GENERAL SUMMARY.

Abnormally high temperature caused the continuance throughout this month of the unseasonal advance of vegetation that had started in the preceding month. Peach, plum, and pear buds began to open in southern districts during the first week, and by the end of the third week the trees were in full bloom in the northern counties. Heavy frosts toward the end damaged the fruit to some extent in the northeastern fourth of the States, but most of it was believed to be safe in other sections.

Winter grains, alfalfa, clover, and pastures improved steadily during the month. In many fields growth became so rank as to place the plants in danger from possible freezes. From its undersized winter condition wheat developed to a stage much ahead of its usual state. Irregularity in growth resulted from the effect of the wet weather on the various types of soil. Some wheat was damaged by standing water on the flat lands and low spots of the central and western counties. Strawberries showed occasional blossoms in the last week, and budded so freely as to be unusually vulnerable to freezes. Frequent rain interfered seriously with all spring work. The sowing of tobacco plantbeds was possible on only a few days, therefore the work extended throughout the month and had scarcely been completed in northern sections at its close. Very little plowing could be done, and that was mainly confined to upland sod. Weather conditions were more favorable for stirring the soil in the southern counties than in the northern districts. Some potato planting occurred in the third week, but the work could not be finished. There were but few days on which early gardening could be done. Such cool weather vegetables as were planted came up promptly and grew rapidly.

Seeding on grain fields proceeded fairly well, but the phases of this work that required soil preparation remained backward. Progress with all farming and garden activities was best on the limestone hills and uplands. At the end of the month vegetation was at least two weeks ahead of the season, while plowing and planting were as much in arrears.

TEMPERATURE.

With breaks of one to two days, when temperatures averaged near normal, excesses ranging from 5° to 25° occurred daily from the 12th to the end. Temperatures were also above normal on most days in the first decade. Maxima above 70° were frequent, and on a few days in the last half they reached 80°. After the first week, temperatures seldom fell to freezing. Extremes for the State were 86° at Pippapass on the 21st, and 11° at Cumberland and Farmers on the 1st.

PRECIPITATION.

Precipitation averaged far above normal. The area extending from the Purchase to the lower Cumberland Valley received from 6.0 to 12.0 inches. In most south-central and eastern counties it ranged from 4.0 to 6.0 inches. For the State amounts varied between 3.27 inches at Russellville and 12.6 inches at Fords Ferry. Except on the 1st and 8th, measureable amounts were reported daily. Moderate to heavy rain occurred in the periods, 9th-8th, 10th, 14-17th, 23d-24th, and 29th-31st. Many central and western districts were visited by heavy to excessive rains on the last two days. Snowfall was limited to flurries in a few central counties. Days with thunderstorms were: 2, 5, 12, 13, 14, 16, 17, 22, 23, 25, 26, 29, 30, 31.

MISCELLANEOUS.

March 15.—A tornado crossed the Mississippi from Missouri about 2 1-2 miles south of Columbus, Ky., and moved northeast in Carlisle County to a point about 1-4 mile northwest of Arlington, Ky. The storm path was about 6 1-2 miles long in Kentucky and about 150 yards wide. It was first noticed at 5:08 p. m. and ended at 5:30 p. m. The damage was approximately $2000, most of it in Arlington. A child was burned by lightning and a woman rendered temporarily deaf.

March 26.—A windstorm at Georgetown caused damage estimated at $50,000 to one business block. The damage was mainly to roofs, windows and stocks in stores.

March 31.—A windstorm caused damage estimated at $25,000 to houses, barns, and other property in McCracken, Carlisle, Livingston, and Crittenden counties. Small streams, swollen suddenly by torrential rains, drowned considerable livestock. Damage to roads and bridges in Henderson and Daviess counties was estimated $100,000.

Rivers.—A slow rise in the first week raised stages in the Ohio above 30 feet at most stations along the State border. Flood stages were reached at some lower stations on the 14th, and in most of the Evansville district on the 18th. The river crested slightly above flood levels from Dam 47 to Cairo. Western lowlands were largely under water during the month. Excessive rains at the end increased this flooding.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo .....Ill.	29.95	30.50	7	29.45	13	11.3	34	sw.	31	76	62	63	50
Cincinnati .....Ohio	29.99	30.41	7	29.52	5	9.7	32	se.	31	81	63	65	51
Evansville..... Ind.	29.97	30.56	7	29.52	13	11.1	40	sw.	29	69	62	61	44
Louisville .....Ky.	30.00	30.45	7	29.56	14	12.4	35	sw.	15	80	64	63	45

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation		Number of days			
	Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	40.5	84	18	1.52	....	..	..	..	..
1890	41.2	78	4	8.34	....	..	..	..	..
1891	41.8	71	9	8.08	....	..	..	..	..
1892	40.6	82	7	4.08	....	..	..	..	..
1893	45.0	89	5	2.76	....	..	..	..	..
1894	50.8	86	10	2.72	....	..	..	..	..
1895	45.0	88	15	3.17	....	9	13	7	10
1896	41.1	80	8	6.16	....	12	9	9	13
1897	49.6	86	20	7.94	0.2	14	8	9	14
1898	50.7	84	16	7.59	1.0	13	8	9	14
1899	43.9	80	— 3	8.10	2.4	15	8	10	13
1900	42.8	81	— 3	2.58	3.9	9	11	8	12
1901	46.4	87	3	3.50	0.5	10	9	7	15
1902	47.2	82	7	4.44	0.1	11	10	9	12
1903	52.5	85	19	4.43	T.	12	9	7	15
1904	47.7	88	12	6.26	0.5	12	8	8	15
1905	52.2	86	22	4.45	T.	9	15	6	10
1906	59.2	75	3	6.37	2.0	16	6	5	20
1907	54.9	92	18	2.28	0.8	10	13	6	12
1908	51.8	88	19	5.42	0.7	13	10	7	14
1909	44.8	74	17	5.14	T.	11	11	7	13
1910	55.0	91	11	0.79	0.3	3	18	7	6
1911	46.0	87	7	2.57	0.6	9	14	5	12
1912	51.3	88	10	6.22	6.6	15	9	3	19
1913	46.5	85	9	7.22	0.5	10	12	7	12
1914	41.8	78	2	3.62	6.4	12	10	6	15
1915	37.8	65	11	2.11	3.5	8	12	5	14
1916	43.5	84	4	3.39	3.7	10	12	8	11
1917	44.9	84	0	6.52	8.1	14	13	6	12
1918	51.6	85	17	1.97	T.	8	15	7	9
1919	47.6	81	16	5.65	T.	9	15	6	10
1920	46.3	88	— 1	4.85	0.6	10	15	6	10
1921	56.7	87	19	5.75	T.	11	13	9	9
1922	48.4	83	19	3.11	0.5	14	9	6	16
1923	45.6	80	8	5.27	T.	9	15	7	9
1924	41.5	81	14	3.05	1.8	9	9	5	17
1925	49.2	84	4	3.59	0.4	9	16	7	8
1926	40.2	84	4	2.80	2.3	11	12	6	13
1927	48.4	82	10	6.04	3.5	11	12	7	12
1928	45.6	85	12	2.64	2.7	8	12	8	11
1929	52.0	94	9	4.17	1.2	10	13	8	10
1930	44.5	76	9	2.17	1.2	9	15	7	9
1931	41.4	73	24	3.66	1.9	17	7	7	17
1932	41.2	80	4	4.95	1.5	10	11	8	12
1933	46.0	78	10	5.52	T.	11	7	12	12
1934	43.6	80	5	4.83	2.1	13	12	7	12
1935	54.6	86	20	9.56	0.3	14	9	8	14
1936	50.7	81	19	4.85	3.2	11	14	8	9
1937	42.2	77	6	1.43	2.8	7	14	7	10
1938	53.7	86	11	6.29	T.	13	8	10	13
Period †	46.4	94	— 3	4.69	1.8	11	12	7	12

†49-year averages.

Climatological Data for March, 1938.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	...	55.2	+ 7.6	83	21†	20	1	40	7.83			2.50	0	18	13	5	13	Eldred G. Young.
Birmingham	Marshall	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Tennessee Valley Authority.
Calhoun	Mc Lean	437	34	54.2	+ 5.8	83	21	19	1	42	8.25	+3.78	2.75	0	13	12	3	16	.....	R. U. Bennett.
Earlington	Hopkins	420	44	57.4	+10.0	83	21	20	18	43	6.49	+1.91	1.05	0	15	12	5	14	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	...	...	...	...	...	...	...	12.00	+6.97	7.85	0	14	...	...	...	.....	Lockmaster.
Greenville	Muhlenburg	519	21	54.6	+ 7.3	83	22	17	1	33	7.03	+2.64	1.48	0	13	10	16	6	s.	C. R. Lovell.
Henderson	Henderson	382	16	54.5	.....	82	21	20	1	37	8.57	+3.16	2.64	0	13	10	12	9	e.	Frank Street.
Hopkinsville	Christian	624	42	55.2	+ 6.4	83	21	21	1	38	4.38	+0.01	1.25	0	13	10	2	10	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	55.4	+ 6.5	80	21	22	7	36	9.55	+3.86	3.60	0	12	8	10	13	s.	Blaine Malone.
Mayfield	Calloway	364	29	55.8	+ 6.1	78	21†	23	1	34	4.63	+0.60	1.89	0	13	10	11	10	s.	Mrs. Joe Payne.
Murray	Graves	412	12	...	...	...	...	27	1	.....	10.04	+4.09	5.25	0	14	9	8	14	s.	Pat W. Wear.
Owensboro	Daviess	420	41	53.8	+ 7.2	80	21†	21	1	35	9.97	+5.70	3.08	0	16	12	5	14	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	...	...	...	...	...	...	...	9.99	+6.22	4.70	0	17	...	...	...	.....	Lockmaster.
Paducah **	McCracken	341	18	56.7	+ 6.9	82	21	21	1	33	7.95	+3.47	2.55	0	12	8	15	8	.....	Joe Lagorie.
Princeton	Caldwell	529	31	56.4	+ 8.7	84	21	21	1	39	7.63	+3.53	2.05	0	18	9	11	11	s.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	21	...	...	...	...	...	...	...	8.62	+4.12	3.38	0	17	...	...	...	.....	Lockmaster.
Russellville	Logan	590	25	°52.6	+ 5.5	82ª	21	19	1	38ª	3.27	−1.50	0.82	0	9	8	9	14	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	...	...	...	...	...	...	...	5.19	+1.26	1.69	0	15	...	...	...	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	...	...	...	...	...	...	...	8.89	+4.93	3.67	0	14	...	...	...	.....	Lockmaster.
Anchorage	Jefferson	700	38	51.2	+ 6.8	82	22	17	1	39	8.11	+3.85	1.87	0	16	9	7	15	sw.	C. E. Barret.
Bowling Green	Warren	600	42	°56.4	+ 8.0	83ª	22	22ª	1	39ª	5.65	+0.65	1.40	0	12	7	11	13	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	21	...	...	...	...	...	...	...	6.12	+0.89	1.10	0	16	...	...	...	.....	Lockmaster.
Burnside	Pulaski	705	47	...	...	...	...	...	...	...	7.62	+2.41	1.60	0	15	...	...	...	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	...	...	...	...	...	...	...	7.60	+3.78	2.03	0	10	...	...	...	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	...	...	...	...	...	...	...	5.69	+2.14	1.15	0	16	...	...	...	.....	Lockmaster.
Danville	Boyle	955	14	52.4	.....	83	22	18	1	40	5.92	+2.01	1.47	0	15	7	12	12	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	53.7	.....	84	22	20	1	38	5.84	+2.14	1.80	0	13	10	7	14	sw.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	...	...	...	...	...	...	...	5.32	+0.61	1.20	0	9	8	6	17	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	52.4	+ 6.3	82	22	18	1	39	4.80	+0.42	0.96	0	11	7	6	18	sw.	Lockmaster.
Gest, Lock 3	Henry	490	28	...	...	...	...	...	...	...	7.74	+3.18	1.83	0	15	...	...	...	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	...	...	...	...	...	...	...	5.17	+2.15	1.72	0	15	...	...	...	.....	Lockmaster.
Greensburg	Green	584	45	54.1	+ 8.0	82	21†	15	1	45	5.24	+0.17	1.18	0	17	5	2	24	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	...	...	...	...	...	...	...	5.86	+1.54	1.66	0	15	...	...	...	.....	Lockmaster.
Irvington	Breckinridge	646	40	°54.0	+ 7.2	86ª	22	21ª	1	44ª	7.54	+3.07	2.29	T.	16	9	4	18	sw.	W. J. Piggot.
Lancaster	Garrard	1032	12	...	...	...	...	...	...	...	6.56	−1.70	1.67	0	13	...	...	...	.....	Walter Killion.
Leitchfield	Grayson	635	42	54.1	+ 8.0	82	22	20	1	36	7.56	+3.14	1.33	0	18	7	14	10	s.	H. H. Willis.
Lexington	Fayette	989	54	50.5	+ 6.8	81	22	20	1	30	5.56	+1.24	0.87	T	18	...	...	...	.....	U. S. Weather Bureau
Littlelickman, Lock 8¶	Jessamine	560	28	...	...	...	...	...	...	...	5.64	+1.28	1.65	0	10	...	...	...	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	...	...	...	...	...	...	...	8.35	+3.91	2.92	0	13	...	...	...	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	52.4	+ 7.0	81	22	26	1	37	6.76	+2.37	2.77	T.	16	6	11	14	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	....	53.0	.....	81	22	22	1	30	6.23	.....	1.34	0	17	...	...	...	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	...	3	56.0	.....	85	28	13	1	49	7.77	.....	1.42	0	18	11	11	9	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	9	...	...	...	...	...	...	...	5.87	+2.10	1.04	0	13	...	...	...	.....	Mrs. M. W. Price.
St. Joma	Hardin	777	42	53.0	+ 8.0	81	22	18	1	39	7.73	+3.09	1.70	0	12	20	11	0	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	...	...	...	...	...	...	...	6.22	+2.04	1.58	0	10	...	...	...	.....	Lockmaster.
Shelbyville	Shelby	825	45	50.2	+ 5.6	78	22	18	1	28	6.80	+1.75	1.44	0	19	10	0	21	sw	Miss Ruth Ratta.
Shepherdsville	Bullitt	500	1	...	...	...	...	...	...	...	5.96	.....	1.25	0	12	11	1	19	sw.	A. McLeod.
Smith's Grove	Warren	607	...	53.8	.....	83	22	18	1	36	8.16	.....	1.41	0	17	...	...	...	.....	Airway Station.
Stearns	McCreary	1400	2	53.4	.....	81	21	18	1	36	9.76	.....	0.91	0	14	...	...	...	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	...	...	...	...	...	...	...	5.78	+2.13	1.05	0	15	...	...	...	.....	Lockmaster.
Williamstown	Grant	943	35	51.6	+ 7.9	84	22	20	1	36	6.60	+2.56	1.20	0	16	13	10	8	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	21	...	...	...	...	...	...	...	6.22	+1.58	1.60	0	12	...	...	...	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	...	7	...	...	...	...	...	...	...	5.55	.....	1.66	0	11	9	7	15	sw.	W. A. Worthington.
Ashland	Boyd	534	21	52.2	+ 6.6	84	22	20	2	43	4.00	−0.32	0.74	0	19	12	8	11	w.	Lockmaster.
Berea	Madison	1070	35	53.8	+ 7.2	82	22	19	1	36	4.73	−0.26	1.45	0	16	9	7	15	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	...	...	...	...	...	...	...	5.71	+1.12	1.80	0	12	...	...	...	.....	Lockmaster.
Cumberland	Harlan	1440	1	55.6	.....	81	22	11	1	42	4.30	.....	1.55	0	6	18	8	5	w.	C. Bertrand Fields.
Cynthiana	Harrison	684	20	...	...	...	...	...	...	...	4.81	+0.61	0.92	0	9	...	...	...	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	...	...	...	...	...	...	...	6.88	+2.41	1.49	0	15	...	...	...	.....	J. V. Oldham.
Farmers	Rowan	668	31	51.0	+ 6.0	81	22	11	1	40	5.91	+1.44	1.45	0	12	8	1	22	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	...	...	...	...	...	...	...	5.29	+1.00	1.04	0	12	...	...	...	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	...	...	...	...	...	...	...	5.50	+1.14	1.31	0	12	...	...	...	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	...	...	...	...	...	...	...	4.73	+1.06	0.94	0	18	...	...	...	.....	Lockmaster.
Hazard	Perry	869	14	...	...	...	...	...	...	...	6.10	+1.90	2.25	0	8	...	...	...	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	3	54.0	.....	82	21†	15	1	41	6.15	+1.40	1.44	0	14	8	3	20	sw	Lockmaster.
Jackson	Breathitt	776	14	...	...	...	...	...	...	...	7.00	.....	1.60	0	10	...	...	...	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	...	...	...	...	...	...	...	3.65	−4.20	1.38	0	7	...	...	...	.....	R. J. Howard.
Louisa	Lawrence	584	35	...	...	...	...	...	...	...	4.07	−0.71	0.90	0	15	...	...	...	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	51.6	+ 7.3	83	22	19	1	39	5.61	+1.37	0.90	0	16	8	12	11	sw	Lockmaster.
Middlesboro	Bell	1128	39	55.7	+ 7.9	80	22	17	1	39	5.32	+0.08	1.72	0	11	13	15	3	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	49.7	+ 6.9	84	22	17	1	39	4.65	−0.44	1.00	0	6	8	15	8	w.	W. R. McKee.
Oneida	Clay	.....	1	...	...	...	...	...	...	...	6.52	.....	1.84	0	9	...	...	...	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	...	...	...	...	...	...	...	5.08	+1.27	1.04	0	14	...	...	...	.....	Lockmaster.
Paintsville	Johnson	620	4	...	...	...	...	...	...	...	5.46	.....	1.24	0	14	...	...	...	.....	Manuel Robinson.
Pikeville	Pike	636	2	54.4	.....	84	30	19	1	38	4.07	−0.25	1.94	0	13	...	...	...	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	57.0	.....	86	21†	18	1	45	5.44	.....	1.60	0	16	7	8	16	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	°52.2	+ 7.0	83ª	21	14ª	1	48ª	6.87	+1.00	1.80	0	9	...	...	...	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	...	...	...	...	...	...	...	3.83	−0.13	0.87	0	12	...	...	...	.....	Lockmaster.
Richmond	Madison	926	41	53.6	+ 8.0	80	22	23	1	27	6.15	+1.76	1.70	0	11	10	12	9	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	...	...	...	...	...	...	...	5.69	+1.01	1.55	0	12	...	...	...	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	...	...	...	...	...	...	...	5.62	+0.98	1.11	0	15	...	...	...	.....	Lockmaster.
Williamsburg	Whitley	939	41	54.4	+ 7.4	83	30	17	1	51	4.01	−0.64	0.82	0	10	12	8	11	.....	Wadely West.
Willow, Lock 13	Lee	646	18	...	...	...	...	...	...	...	5.89	+1.59	1.65	0	14	...	...	...	.....	Lockmaster.
Winchester	Clark	964	....	51.3	.....	80	22	20	1	30	5.70	.....	1.28	0	13	...	...	...	.....	Airway Station.
State averages and extremes		.....	.....	53.7	+ 7.3	86	21†	11	1	49	6.29	+1.60	7.84	T.	13	8	10	18	sw	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, ª, ᵇ, ᵉ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.;
Oneonta, California, Ky. * * Precipitation by U. S. Engineers.

Daily Precipitation for March, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam..... G																																
Birmingham..... T				40		.37			*	.43	.20			2.50	.43	.71				.49			.18						1.13	.46	.03	7.33
Calhoun..... G		.02	.02	.25						.08	.50		T.	.55	.75				.40				.33		.90	T.		T.	.55	1.25	2.75	8.00
Earlington..... G		.08	.35		.29				.37	.97			.04	1.03	.01	.85			.37				.35			.02		T.	.72	.37	.68	6.19
Fords Ferry Dam 50‖..... O		.05	.30	T.		.26			T.	1.13			.03	.60	.01	.42	T.			.66			.41	T.			.03		.83	.02	T.	12.60
Greenville..... G		.05	.35		.28				.40	.85			T.	1.48	.90	1.10			.15	T.						.02			.40	.85	.70	
Henderson..... O		.28	T.		.25				.29		.68		.25	.36	.25	.63			T.				.37		.54			T.	.57	2.06	2.64	8.57
Hopkinsville..... C		.15	.16		.67	.11			.37					1.25	.04	.65			.25				.08			T.		.12	.67		.40	4.86
Lovelaceville..... M		.30			.25				.58				3.00	1.25	.20				.50							.25		.15	1.20	1.05	1.70	9.68
Mayfield..... M		T.	.02		.33				.41	.22				1.36	T.	.12			.33				.02	.08				.08	.10	1.39	.17		4.63
Murray..... T			.08	.45					.38	.17				.92	.40	1.10			.37				.11		.13	.52		.05	5.25	.11		10.04
Owensboro..... O		.12	.30		.27	.06			.80	.41	.02		.75	.53	.06	1.49			T.				.51		.16			T.	.40	1.51	3.08	9.97
Owensboro, Dam 46 ‖..... O		.01	.38	T.		.32	.01		T.	.62		.02	.06	1.15	.07	1.57	T.			.02			.28	.20		.18			.40	.05	4.70	9.49
Paducah..... O		.04	.07			.17			.02	.68				2.55	T.	T.			T.	.16	T.		.22				.11		1.15	.03	2.15	7.38
Princeton..... C		.07	.03		.23				.35	.41				2.00	1.40	.05	.01		.30	.02		.05	.25			.05		.10	.82	.70	.72	7.63
Ramsey, Lock No. 2 ‖..... G		.02	.32	.02		.38				1.16	.02	.02	T.	.62	.02	.82	T.			.05			.16	.20		.73			.52	.18	3.38	8.62
Russellville ‖..... G			.33							.89				.75		.08				.12			.02						.85	.52	.28	3.27
Uniontown, Dam 49 ‖..... O		.02	.19			.11			.01	.95	.02		.15	.68		.07				.20			.32	.05		.08	T.		.59		1.69	6.19
Central Division																																
Addison, Dam 45 ‖..... O		T.	.6	.06		.58				.69	T.		.01	1.03	.02	.96	T.			.03			.12	.19		.45	T.		.22	.17	3.67	8.89
Anchorage..... O		.19	.30		.40				.15	.48			.50	.30	.03	1.48			.03			T.	.39		.37	.22			.26	1.05	1.87	8.41
Bowling Green..... G			.51		1.05					.85				1.40		.32	.34			.15				.05			.03		.05	.32	.75	5.65
Brownsville, Lock No. 6 ‖..... G		.01	.97	.06		.90				.95		.02		1.10		.26				.09			.02	.22		.20			.22	.32	.68	6.12
Burnside ‖..... C			1.50	.40		1.10				.90		.06		1.40	.60	.25	.50	.08		.05			.20	.20		.10	T.			.08	T.	6.62
Carrollton, Lock No. 1..... K			.33		.10					.75				.87		1.47							.23	.24		.89					2.23	7.60
Cold Spring, Dam 36 ‖..... O			.10	.04	.21	.43				.44		.10		.72	.09	.70	.03	T.		.04			.37	.34		.99			.02	T.	1.15	5.69
Danville..... K			1.47	.03		.68				1.03				.37	.55	.09	.02	.01		.01			.58	.41		.08			T	.01	.58	5.92
Dix Dam, Burgin ‖..... K		1.80			.55				1.15				.18	.28	.18	.05				.02			.45	.44		.20				.45	.02	5.84
Eubank..... C			1.20	.05		1.05				.84				.57		.35								.12	.66					.48		5.32
Frankfort, Lock No. 4..... K			.42		T.	.55				.45		T.	T.	.50	T.	.96	.01			T.			.25	.25		.70			T.	.01	.70	4.80
Gest, Lock No. 3 ‖..... K			.38		.05	.63			T.	.51				.73	.20	1.21	.08		T.				.34	.28		1.04			.05	.41	1.83	7.74
Grant, Dam 35 ‖..... O			.13	T.	.28	.15	T.			.44	.10	.10	T.	.71	.10	.62	.05	T.		.03	T.			.17		.54			T.	.03	1.72	5.17
Greensburg..... G			1.18	.01		.96				.87			.05	.72	.05	.09	.06	.03		.04			.12	.16		.19	T.		.02	.12	.57	5.24
High Bridge, Lock No. 7 ‖..... K		T	1.56			.57				1.21		.04		.17	.49	.13	.05	.02		.03			.46	.47		.22			.03	T.	.39	5.84
Irvington..... O		.15	.80		.24	.06			.17	.43	T.		.21	.47	.03	1.03	T.		.02				.42		.14	T.			.10	.89	2.29	7.54
Lancaster ‖..... K		1.67			.88				1.80				.36	.17	.24	.09						.47	.88		.12				.20	.52	.18	6.55
Leitchfield..... G		.11	.75		.64	.14			.32	.72	.06		.07	1.01	T.	1.83	.03		.05	T.			.31		.40	.02			.30	.40	.90	7.56
Lexington ***..... K		.87	.31	.01	.43	T.			.29	.68	.01		.16	.28		.49	T.		T.	T.	.01	.67	.52		.10	.27			.02	.22	.38	5.56
Little Hickman, Lock No. 8 ‖..... K			1.65			.65				1.12				.18	.38	.14							.23	.43		.10					.76	5.64
Lockport, Lock No. 2 ‖..... K			.32		.08	.48				.60		.05	.10	.80		1.80							.25	.22		1.20			T.	.15	2.32	8.85
LOUISVILLE*** ..... O		.88	.35		.37	T.			.29	.36	T.	T.	.49	.12	.77	.11	T.		.01	T.		T.	.22		.16	.20		T.	.08	1.58	1.32	6.76
Do. Bowman Field..... O		.22	.45		.29	.01			.09	.50	T.		.45	.12	T.	.87	T.		.01			.02	.26	T.	.32	.18			.05	1.05	1.34	6.23
Mammoth Cave..... G		.80	1.04	T.	.81	.29			.37	.60			.01	1.42		.64	.03		.07	.05			.17		.03	.15	T.		.28	.32	.69	7.77
Munfordville..... G			.82	.10		1.20				.32	T.	.10		.97	.09	.82	T.	T.						.22		.87			T.	.17	1.16	1.04	5.87
St. John..... S		.10	.10		.60					1.70				.30		1.05	1.30		T.				.40		.40	.10			T.	.55	1.13	7.73
Salvisa, Lock No 6 ‖..... K		T.	1.53			.09				1.03		T.	T.	.35	.24	.85	T.			T.			.85	.36		.86				.58		6.22
Shelbyville..... S		T.		.05	.48	.13			T.	.54	.02		.52	.19	.02	1.44	.06		.01			.40	.46	.04	.56	.10			.04	.63	.81	6.60
Shepherdsville..... S		.03	1.25			.80				.71			.47	.42		1.25			.02					.34	T.	.08				.11	.98		5.96
Smith's Grove..... G		.03	.89		.98	1.19			.84	.92				1.41		.56	T.		.08	.09			.18	.18		.03		.02	.19	.22	.86	8.16
Stearns..... C			.91	.30		.77				.68	.03			.04	.28		.03	.07					.66	.36		.18	.06			.09			3.76
Tyrone, Lock No. 5 ‖..... K		T.	.98		.02	.52				.78		T.	.03	.33	.10	.52	.09			.02			.32	.40		.55			.02	T.	1.05	5.78
Williamstown..... L			.30	.17	.40	.17				.56	.05		.65	.18	.02	1.10		.03					.80		.13	.40				.50	1.20	6.60
Woodbury, Lock No. 4 ‖..... G			1.05	.01		.68				.98				1.60		.30				.08			.04	.05		.08			.24	.38	.81	6.22
Eastern Division																																
Annville..... C			1.69			.72				.70				.45	.86	.85	.37					.06	.12		.16					.10	5.55
Ashland ‖..... K			.22	.20	.06	.57				.23	.16	.05		.14	.09	.10	.35	.06		.02		.02	.34	.46		.74			.02	.12	.07	4.00
Berea..... K		T.	1.45		.45	.38			.04	.11	.01		.04	.64		.21	.28			.05			.08			.15			.02	.21	.61	4.73
College Hill, Lock No. 11 ‖..... K			1.80			.61				.90				.22	.17	.45	.15	T.		.02			.60	.43		.26					.10	5.71
Cumberland..... C			1.55								T.			.10	.60						1.45		.10							.50	4.80
Cynthiana ‖..... K			.25		T.	.44				.40				.60		.51							.56	.57		.47				.52	4.81
Falmouth ‖..... L			.35	T.	.12	.63				.43		.05		.64	.02	.94	.05			T.	T.		.72	.25		.61			.01	.18	1.49	6.53
Farmers ‖..... L			.97			.67				.64				.08	.23	.21	.70	.06					1.45	.22		.47			.21			5.91
Flemingsburg ‖..... L			.38		.17	.55				.58				.51	.08	.71	.30	.05					1.04	.49		.46						5.29
Ford, Lock No. 10 ‖..... K			1.31	T.	T.	.61	T.			1.00	T.	T.		.18	.48	.26	.06	T.		T.			.73	.27		.27				.02	.11	5.30
Greenup, Dam 30 ‖..... O			.20	.18	.01	.48				.22		.06	.07	.43	.06	.15	.32	.04					.83	.38		.94	T.		.03	.02	.28	4.78
Hazard ‖..... K			2.26			.57				1.53			.30		.55		.28							.57					.10			6.10
Heidelberg, Lock No. 14 ‖..... K			1.44	.10	T.	.59				.95	.08	.03		.28	.68	.36	.37	.02					.82	.37		.16						6.15
Jackson..... K			1.60	.06		.75				1.00				.25	.85	.14	.25						1.15	.95	T.							7.00
Jenkins ‖..... B			1.58	T.		.63				.70				.04	.30		.32							.18								3.55
Lotusa ‖.....			.80	.20		.80				.43	.26	.05			.50	.08	.43			.10	.08		.28	.30		.55					.05	4.57
Maysville ‖, Dam 33..... O			.23	.12	.10	.55				.33	.02	.06		.70	.15	.73	.05	T.					.53	.90		.85		T.	.04	.50		5.61
Middlesboro..... C			1.72			.53			T.	.71					T.	1.20	.05					.10	.30	.10		.10	.04				.47	5.82
Mount Sterling..... L			T.	T.	.90				T.		T.		.70	.45		.90	T.			T.		1.00	.70	T.	T.		T.		T.	T.		4.65
Oneida..... K			1.84			1.11				.82				.80	.74	.14	.45	.10					.52									6.52
Onconta Dam 35 ‖..... O			.04	.02	.18	.32				.35	T.	.09	T.	.70	.03	.96	.02	T.		T.			.65	.33		.40		T.	T.	1.04		5.08
Palumbo ‖..... B			1.24		.15	.45				.88		.11	.06	.06		.11	.10	.14	.04				.65	.50		.97						5.46
Pikeville ‖..... B		T.	.94			.42			T.	.83	.06	T.		.56	.06		.40	.01				.20	.01	.18		.22					.18	4.07
Pippapass..... K			1.60			.55	T.		.49	.50	.05	.09	.08	.12	.16		.40	.03					.04	.25		.05	.06			T.	.97	5.44
Quicksand ‖..... K		1.80				.85				1.08		.13			.80	.19	.36						1.01	.65								6.87
Ravenna, Lock No. 12 ‖..... K			.68	T.	T.	.28				.37	T.	T.		.11	.18	.18	.75	.08		.05			.12	.48		T.					.10	3.83
Richmond..... K				1.70		.80				1.10				.30	.10	.60	.15						.60	.30		.10					.40	6.15
Valley View, Lock No. 9 ‖..... K			1.55		.58					1.20	.02			.20	.29	.19							.54	.50		.20				.02	.40	5.69
Vanceburg, Dam No. 32 ‖..... O			.32	.17	.10	.55				.20		.13		.70	.13	.50	.14	.05					.56	.46		1.11				.18	.32	5.62
Williamsburg ‖..... C			.62	.79		.77				.61				.25									.16	.09	.07	.23				.22		4.01
Willow, Lock No. 13 ‖..... K			1.68	.02		.65				.15		.06		.30	.45	.10	.20		.08				.61	.44		.10				.08		5.89
Winchester..... K			T.	1.28		.83	.16			.06	.91	T.		.16	.67	T.	.33	T.		T.		T.	1.01		.04	.13			T	.09	.45	5.60

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

† Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for March, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	54	60	56	76	70	49	56	68	56	46	54	70	70	68	79	72	54	70	60	74	84	88	72	62	70	70	58	64	78	80	75	66.4
	Minimum	20	41	44	36	30	20	24	34	42	40	36	32	56	56	48	54	43	34	48	52	49	62	50	35	40	52	41	40	56	63	56	44.0
Calhoun	Maximum	41	62	55	76	71	49	57	67	58	56	56	71	71	66	79	66	56	71	60	74	83	82	72	61	70	71	60	65	78	78	75	66.2
	Minimum	19	20	42	38	49	31	23	34	39	39	37	30	54	37	52	55	43	33	50	50	45	62	50	34	48	51	41	37	56	59	52	42.1
Earlington	Maximum	55	62	59	76	76	52	56	65	65	47	55	71	73	70	80	78	56	76	73	72	83	82	72	62	82	76	59	64	79	82	79	68.9
	Minimum	20	44	42	40	52	31	24	43	44	40	36	32	56	56	50	61	42	33	53	55	46	65	62	35	42	56	42	40	57	62	65	46.0
Greenville	Maximum	54	62	58	76	73	53	54	67	62	44	55	70	72	67	79	77	55	71	70	71	82	83	76	62	80	78	57	63	78	80	77	67.9
	Minimum	17	38	41	37	34	29	20	38	43	38	33	29	44	54	48	53	40	31	50	51	44	62	51	34	36	50	40	38	34	58	50	41.4
Henderson	Maximum	54	57	54	76	71	45	55	66	55	50	46	70	66	64	78	68	54	71	63	73	82	80	72	62	68	70	61	63	78	78	75	65.3
	Minimum	20	39	39	39	44	31	24	36	43	44	39	36	53	51	46	54	41	35	51	54	51	62	46	35	43	50	40	37	57	61	54	43.7
Hopkinsville	Maximum	54	61	60	78	71	53	56	66	57	50	58	71	71	73	80	74	55	72	58	59	83	81	65	64	80	62	60	60	79	81	70	66.5
	Minimum	21	36	43	41	52	30	24	34	45	41	35	33	52	54	52	54	44	35	49	48	48	59	44	38	42	48	42	44	58	58	58	43.8
Lovelaceville	Maximum	53	60	58	75	75	44	55	68	65	45	60	68	70	67	75	72	56	71	70	68	80	80	77	62	65	72	74	65	76	79	77	66.4
	Minimum	29	40	41	40	53	26	22	34	45	42	30	35	56	52	51	54	44	38	50	53	44	62	51	38	47	48	44	44	55	60	52	44 5
Mayfield	Maximum	53	62	50	77	74	54	54	63	63	48	54	67	68	69	77	75	54	70	70	64	78	77	65	61	78	78	55	58	77	78	76	66.3
	Minimum	28	41	42	40	52	30	27	39	39	42	33	41	57	53	52	53	44	40	52	50	50	62	52	40	44	49	43	40	56	65	54	45.8
Murray	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	27	41	43	52	34	27	43	42	45	43	35	39	56	56	57	52	45	39	54	50	50	61	52	42	49	49	48	44	58	66	56	47.0
Owensboro	Maximum	53	58	53	74	71	51	50	62	64	51	55	70	66	64	78	73	54	64	64	74	80	80	72	62	66	70	62	64	76	76	73	65.8
	Minimum	21	33	35	35	50	27	24	40	40	38	35	33	50	52	48	53	39	34	54	58	49	60	47	36	40	40	38	39	51	52	61	41.8
Paducah	Maximum	54	61	59	77	66	47	56	68	63	47	60	70	70	70	79	73	56	73	70	72	82	80	69	64	78	74	58	60	78	80	74	67.4
	Minimum	21	41	41	41	45	33	25	38	46	43	35	38	58	54	51	55	44	40	54	54	54	64	53	39	48	52	44	42	58	60	54	46.0
Princeton	Maximum	57	62	59	78	71	51	58	68	66	47	57	71	72	68	79	65	55	72	68	73	84	82	65	65	81	72	59	60	80	80	78	67.3
	Minimum	21	40	43	43	61	31	24	34	46	41	37	33	58	56	50	55	44	35	51	54	45	61	54	48	45	51	43	43	57	63	54	45.5
Russellville§§	Maximum	55	62	56	75	68	41	54	57	51	48	58	71	72	73	80	69	48	67	59	70	82	81	...	59	78	61	57	63	75	73	66	*64.3
	Minimum	19	21	40	39	42	30	24	35	39	42	37	31	55	54	51	53	43	34	36	47	47	50	60	36	41	42	41	42	44	58	55	40.8
Central Division.																																	
Anchorage	Maximum	51	57	54	65	65	45	49	61	48	47	49	57	60	58	74	70	63	65	65	70	79	82	77	66	60	65	58	64	77	78	71	69.1
	Minimum	17	31	34	31	45	31	20	31	37	34	34	28	51	43	40	53	41	29	41	51	44	54	46	29	37	48	34	34	56	61	51	39.2
Bowling Green	Maximum	56	63	64	73	69	43	55	63	61	47	57	70	70	73	70	74	63	73	65	72	82	83	71	63	78	72	63	69	77	82	..	67.5
	Minimum	22	40	46	40	48	32	27	48	45	42	39	43	53	54	52	57	42	37	45	50	55	60	51	43	39	55	43	39	57	62	..	*45.4
Danville	Maximum	54	59	53	66	73	54	51	61	56	46	47	66	70	68	78	76	64	65	63	69	80	83	72	55	63	69	57	67	74	81	76	65.0
	Minimum	18	30	35	33	53	28	23	37	34	36	35	29	47	53	41	56	40	31	38	47	40	53	51	31	30	51	34	31	54	61	58	39.8
Dix Dam	Maximum	46	58	54	62	71	54	51	61	61	52	46	66	67	66	76	75	70	65	64	70	80	84	73	58	63	68	59	58	74	78	77	65.0
	Minimum	20	35	39	36	54	31	26	36	35	38	38	31	50	56	43	59	43	35	39	50	42	50	58	34	35	55	37	33	57	63	60	42.4
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	53	55	55	55	69	56	51	63	58	50	49	66	64	65	75	75	63	64	68	71	79	82	68	58	60	67	61	66	74	78	76	64.3
	Minimum	18	31	36	30	46	32	25	34	31	36	28	27	54	47	41	56	42	33	33	52	41	49	62	32	25	54	36	32	58	64	51	40.5
Greensburg	Maximum	56	60	59	74	73	57	53	66	62	48	55	69	73	72	79	76	63	72	66	72	82	82	73	59	69	69	59	68	75	82	77	67.5
	Minimum	15	33	39	34	55	29	21	29	36	38	38	24	53	53	45	56	40	32	37	47	41	51	52	33	31	54	38	32	56	61	59	40.7
Irvington	Maximum	52	..	58	69	67	48	52	52	59	48	52	67	62	61	78	72	55	68	62	69	79	80	75	58	62	70	57	65	74	77	74	*64.2
	Minimum	21	..	39	36	48	29	26	39	41	39	37	36	52	48	43	55	42	34	51	52	52	62	49	35	43	52	39	39	58	61	58	*43.9
Leitchfield	Maximum	53	60	55	71	68	50	51	63	58	45	50	68	68	67	78	75	55	68	57	69	80	82	74	59	66	67	57	66	74	77	74	65.0
	Minimum	20	38	39	35	50	29	23	35	42	39	33	34	53	55	45	55	40	35	48	52	51	61	49	36	40	52	39	39	56	61	55	43 2
Lexington	Maximum	50	54	50	59	70	38	48	62	49	48	46	65	61	64	75	74	50	64	55	67	80	81	67	56	65	67	59	66	73	78	71	62.0
	Minimum	20	35	32	31	38	27	25	36	38	33	32	32	49	42	40	50	43	32	44	48	48	47	42	33	40	40	35	36	56	62	42	39.0
Louisville	Maximum	51	55	53	68	67	33	49	52	49	47	52	67	63	60	75	69	47	56	54	59	78	81	69	56	67	67	57	65	73	77	73	82.4
	Minimum	26	42	32	31	38	29	29	42	40	37	37	38	52	41	41	47	42	39	49	55	52	63	45	38	43	43	38	42	57	62	50	42.5
Do. Bowman Field	Maximum	52	56	46	69	67	57	50	62	50	46	51	68	58	59	77	68	45	68	65	70	80	81	65	59	57	57	60	65	72	77	64	61.6
	Minimum	22	38	38	32	57	31	27	40	34	38	36	34	51	54	42	57	43	34	48	54	52	63	53	35	41	55	37	39	57	66	52	44.5
Mammoth Cave	Maximum	54	61	55	73	75	52	53	65	55	69	51	68	77	78	79	75	75	70	72	72	82	84	83	81	74	80	60	65	77	84	81	71.3
	Minimum	18	43	39	35	49	28	19	35	36	36	34	28	55	52	46	55	40	32	41	46	43	62	48	32	34	34	37	37	55	60	57	40.7
St. John	Maximum	53	57	54	69	65	54	57	65	58	60	51	67	66	69	76	75	57	68	69	68	78	81	76	64	62	72	58	69	79	76	76	65.8
	Minimum	18	26	39	35	50	29	22	30	47	40	32	28	49	48	45	43	41	31	42	52	48	59	47	38	37	52	38	37	55	60	57	40.2
Shelbyville	Maximum	50	54	54	55	64	51	49	62	56	45	49	65	50	58	71	70	57	64	64	68	77	78	55	54	68	63	58	64	69	73	73	60.9
	Minimum	18	33	34	28	50	29	24	33	35	35	32	30	49	45	39	56	41	29	42	50	48	55	49	31	38	51	34	35	55	61	53	39.4
Smith's Grove	Maximum	54	61	52	73	71	36	53	66	54	47	58	68	72	73	80	71	47	71	61	68	81	83	68	62	74	74	57	68	75	80	66	65.0
	Minimum	18	32	44	39	59	31	24	34	40	42	36	29	54	40	48	56	42	35	45	47	46	58	52	37	37	58	39	38	44	51	58	42.7
Stearns	Maximum	54	57	56	66	63	36	52	63	54	45	59	66	68	75	74	71	44	69	60	72	81	80	70	59	70	64	55	67	72	79	68	63.7
	Minimum	18	36	51	37	46	36	22	28	41	42	38	32	52	51	50	58	43	37	41	52	47	58	60	40	34	60	29	37	56	61	46	43.2
Williamstown	Maximum	53	56	54	73	69	55	50	60	57	51	50	64	65	68	75	63	65	68	71	71	84	71	60	68	63	63	69	76	71	71	71	68.3
	Minimum	20	35	33	27	41	29	24	35	32	34	31	33	49	44	37	55	40	32	38	51	45	58	53	32	35	52	33	37	52	62	50	40.0
Eastern Division.																																	
Ashland	Maximum	51	59	45	49	73	63	50	53	55	48	46	55	68	67	73	82	56	57	77	66	82	84	66	58	66	68	61	66	82	72	74	64.3
	Minimum	29	20	36	31	41	31	30	37	29	35	28	30	44	47	41	53	47	40	34	54	42	47	56	47	34	56	34	32	51	58	57	40.2
Berea	Maximum	50	59	56	65	71	54	52	61	58	47	47	55	70	67	77	74	57	69	66	70	80	82	72	56	68	67	65	70	76	80	77	65.4
	Minimum	19	38	36	34	53	29	26	40	33	35	34	31	40	53	43	57	42	33	43	52	46	59	53	34	37	53	40	34	58	62	59	43.2
Cumberland	Maximum	53	56	58	64	72	70	69	62	50	50	45	60	65	73	75	78	67	60	65	72	81	79	67	59	80	67	69	74	80	80	77	67.5
	Minimum	11	27	30	37	60	52	31	30	34	40	36	32	36	47	51	61	60	30	35	48	55	54	51	48	33	57	52	37	58	63	63	43.6
Farmers	Maximum	58	67	55	54	74	67	50	60	59	50	48	65	64	64	76	73	74	65	72	64	78	81	61	57	66	73	61	70	76	76	74	65.4
	Minimum	11	21	35	30	59	28	23	26	24	34	24	25	50	48	40	53	41	31	28	46	31	41	54	33	30	52	30	37	49	51	59	36.5
Heidelberg	Maximum	55	59	67	52	73	70	52	63	59	51	45	66	75	72	78	76	73	67	67	59	82	78	78	61	68	70	61	71	75	82	82	67.7
	Minimum	15	26	41	35	45	33	25	30	30	44	32	30	39	48	47	59	46	35	32	49	42	46	66	37	39	58	37	30	50	54	67	40.3
Maysville	Maximum	50	56	55	46	70	54	49	58	55	48	46	64	61	61	66	76	69	52	72	66	79	78	69	59	70	72	66	68	74	78	77	63.0
	Minimum	19	33	34	29	48	32	28	34	28	35	28	29	50	47	39	53	45	37	33	52	44	48	59	38	34	54	34	33	55	63	60	40.3
Middlesboro	Maximum	53	57	59	64	67	67	62	65	63	59	52	65	68	73	75	74	71	68	67	75	76	80	74	66	68	64	68	72	79	78	67	67.6
	Minimum	17	29	48	42	52	53	23	30	35	42	40	30	53	58	51	60	45	36	33	52	41	48	61	44	32	55	45	31	50	60	62	43.8
Mount Sterling	Maximum	28	26	34	54	70	55	38	50	40	46	45	63	55	63	75	75	56	64	67	75	80	84	70	65	66	69	72	74	72	76	76	60.6
	Minimum	15	20	26	48	50	22	22	38	30	38	36	50	46	46	40	56	42	34	24	39	41	51	59	33	30	50	30	32	54	60	58	38.8
Pikeville	Maximum	57	59	48	62	75	39	54	53	51	46	48	64	70	73	80	76	54	64	66	76	78	84	69	75	61	67	67	62	73	76	84	65.7
	Minimum	15	26	33	39	48	39	28	32	30	40	36	33	38	59	50	62	50	41	35	49	45	48	58	45	34	68	41	32	59	56	61	43.0
Pippapass	Maximum	56	62	68	71	74	75	58	65	56	65	58	77	75	77	81	84	77	66	77	75	86	86	86	77	74	72	65	75	77	85	84	73.1
	Minimum	18	28	28	38	51	32	26	33	31	31	32	32	40	50	51	57	46	41	33	48	42	48	59	41	38	57	40	30	51	57	62	40.8
Quicksand	Maximum	53	61	74	..	..	54	51	66	51	52	51	65	72	81	77	77	60	66	72	70	83	82	76	60	76	72	66	72	74	..	72	*66.4
	Minimum	14	24	22	..	..	29	23	29	28	38	29	33	39	49	46	55	44	38	31	48	39	44	46	36	31	55	36	28	..	56	62	*37.9
Richmond	Maximum	50	50	50	60	70	55	50	65	55	45	45	63	65	66	72	73	59	62	65	66	78	80	65	58	65	66	60	68	74	78	68	62.1
	Minimum	23	37	35	48	55	33	33	40	38	38	35	34	52	53	44	60	43	35	46	53	55	62	60	25	40	55	37	37	56	63	60	45.0
Williamsburg	Maximum	58	53	63	59	59	57	74	65	64	50	50	62	72	78	71	72	70	74	63	75	76	80	81	71	74	71	71	69	78	76	83	68.2
	Minimum	17	29	42	39	28	25	23	31	31	41	40	31	50	58	51	53	31	32	35	48	44	48	60	49	33	55	42	33	54	61	52	40.7
Winchester	Maximum	50	56	56	67	71	32	48	59	48	46	44	62	62	62	75	72	45	61	64	66	76	80	66	52	62	60	55	66	72	75	68	60 3
	Minimum	20	34	46	32	56	30	26	36	35	36	32	26	49	54	40	56	43	33	42	50	47	56	60	38	36	58	34	36	56	62	56	42.3

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*, †, ‡ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 4-21-38 1100

1.05
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., APRIL, 1938 No. 4

GENERAL SUMMARY.

Prevailing low temperature in the first decade checked to some extent the untimely advance of vegetation. Freezes on the 3d and 9th caused much damage to fruits. Peaches, plums, pears, and cherries which blossomed first suffered most injury. Strawberries and early blooming apples, especially in extreme western and southern districts, were extensively damaged. Farther north and east, where they bloomed later, the damage to these two fruits was not heavy. Late in the month it could be determined that considerable fruit, irregularly distributed, had escaped serious damage, partly because it was far past the pollenizing stage or because blossoms had not opened when the freezes occurred.

The showery weather of this period prevented most plowing and planting, but almost continuously favorable conditions in the last half permitted excellent progress in preparing for the staple crops. The return of unseasonably high temperature near the middle and its continuance with only a brief interruption until the end encouraged early planting of corn and warm weather vegetables. Corn planting began in the southern counties in the third week later and extended into the northern counties in the last week. Considerable corn was up in the southern half of the State, and some had come up in northern districts, when the month closed. Its earliness rendered it more liable than usual to cutworm damage, which was worse than normal. The long periods of warmth had developed the worms to their most destructive stage just preceding maturity.

Barley and rye were heading in the third week in the western counties. Barley in heading, showed the effects of the freezes, which caught much of it in the boot. Wheat began to head in the last week. As with the grains, forage crops that stand over winter developed two weeks ahead of their usual condition. Seed bluegrass reached full head.

Toward the end the ground became rather dry and hard, impeding the excellent progress in breaking and conditioning. The sowing of tobacco plantbeds continued into the first week. Plants were up in early beds when the later ones were being sown. Great variation resulted in the size of plants. Some were nearly large enough to transplant by the end of the month.

TEMPERATURE.

Except on two days, mean temperatures during the first decade ranged from 5° to 15° below normal. They were as much above the seasonal average in the periods 12th-21st and 24-30th. Maximum temperatures above 80° were registered frequently in the last half. The minimum temperatures in this period were unusually high. Extremes for the State were 91° at Pippapass on the 27th and 22° at Anchorage on the 3d.

PRECIPITATION.

Precipitation averaged about two-thirds of the normal amount. It varied greatly for different parts of the State, ranging from about one-third of the seasonal amount in some extreme western districts to twice the normal quantity in some southeastern counties. The Purchase and the section eastward along the Ohio to Bullitt County received from 1.0 to 2.0 inches. In most east-central and south-central counties from 2.6 to 3.0 inches occurred. Stations in the Big Sandy Valley and near the southeast border reported from 4.0 to 6.0 inches. The range for the State was between 0.86 inch at Owensboro (Dam 46) and 6.64 inches at Middlesboro. Scattered showers occurred from the 1st to 6th. Irregular and generally light rainfall visited all districts in the periods 17th-22d and 28-30th. All stations, except a few in the extreme west, reported moderate to heavy rains from the 7th to 10th. Snow flurries occurred at most northern stations on the 2d and 9th. Days with thunderstorms were: 8, 16, 18, 20, 28, 30.

MISCELLANEOUS.

Rivers.—The Ohio River at Cairo fell below flood level on the 9th. Stages declined slowly in all sections of the Ohio during the month, but had not returned to pool levels at the end. The water had drained off most of the lowlands by the close.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.01	30.29	22	29.51	8	10.2	28	s.	3	78	52	53	70
Cincinnati .....Ohio	30.04	30.36	23	29.47	8	8.8	24	sw.	3	76	53	54	67
Evansville..... Ind.	30.02	30.29	22	29.52	8	10.6	36	sw.	3	73	48	50	69
Louisville .....Ky.	30.04	30.35	23	29.51	8	11.6	28	w.	18	73	54	51	62

COMPARATIVE DATA FOR APRIL.

Year.	Temperature. †Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	57.0	89	24	1.61	....	..	..	..	..
1890	57.0	92	28	4.04	....	..	..	..	..
1891	58.0	92	24	2.52	....	..	..	..	..
1892	56.0	88	22	7.12	....	..	..	..	..
1893	58.0	94	21	6.99	....	..	..	..	..
1894	56.0	94	23	3.54	....	..	..	..	..
1895	57.2	94	22	3.18	....	9	13	8	9
1896	63.6	96	24	1.65	....	6	13	12	5
1897	55.5	90	25	6.03	T.	11	11	9	10
1898	52.4	86	19	3.38	1.1	9	12	8	10
1899	57.2	96	20	3.16	0.3	9	13	8	9
1900	56.2	90	15	2.15	T.	8	14	8	8
1901	50.9	91	23	4.01	2.6	10	11	5	14
1902	54.2	93	22	2.65	0.1	9	14	9	7
1903	55.4	90	22	4.43	T.	12	10	7	13
1904	50.8	85	16	2.83	1.7	11	10	7	13
1905	56.7	91	23	3.00	0.2	9	12	8	10
1906	59.5	94	23	1.40	0.0	6	17	7	6
1907	48.2	87	19	2.78	0.2	11	10	5	15
1908	59.8	89	23	6.56	0.8	14	12	6	12
1909	56.1	96	21	5.98	T.	10	14	7	9
1910	55.4	88	23	5.14	0.7	14	12	6	12
1911	53.8	90	20	7.06	T.	14	11	5	14
1912	58.4	87	25	7.90	T.	12	11	7	12
1913	55.3	89	27	2.73	T.	10	14	5	11
1914	55.7	91	18	3.62	T.	10	11	8	11
1915	60.1	96	17	0.96	0.0	5	17	8	5
1916	54.0	89	23	2.64	1.4	9	11	8	11
1917	55.8	90	19	5.02	0.5	8	14	7	9
1918	53.9	87	25	4.07	0.3	12	8	8	14
1919	56.7	89	19	3.51	0.0	10	13	7	10
1920	50.8	89	22	6.16	0.2	13	9	8	13
1921	58.2	90	22	4.09	T.	10	15	7	8
1922	59.5	88	25	4.25	0.0	10	14	8	8
1923	54.8	90	13	4.88	0.0	9	15	6	9
1924	57.4	93	19	3.41	0.1	10	13	7	10
1925	61.2	88	23	3.16	0.0	10	14	7	9
1926	51.6	87	16	3.17	T.	10	13	7	10
1927	58.7	92	22	6.39	T.	15	10	8	12
1928	52.9	83	21	4.20	0.6	11	11	9	10
1929	60.1	90	23	3.57	0.0	10	14	8	8
1930	58.9	94	21	1.81	0.0	6	16	8	6
1931	55.9	89	25	4.52	0.1	8	15	6	9
1932	56.4	86	25	3.88	T.	10	13	6	11
1933	55.7	87	27	4.74	0.0	13	14	7	9
1934	56.9	90	24	2.16	T.	8	13	10	7
1935	55.8	92	24	4.42	T.	12	10	6	14
1936	53.1	90	19	4.79	0.1	11	11	8	11
1937	55.9	91	22	4.38	0.0	12	11	8	11
1938	59.3	91	22	2.85	T.	9	14	8	8
Period	56.2	98	13	3.96	0.3	10	13	7	10

†49-year averages.

Climatological Data for April, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	...	60.0	+ 4.1	88	26	26	3	36	1.64	−2.48	0.67	0	8	18	8	4	s.	Eldred G. Young.
Birmingham	Marshall	....	2	....	....	....	....	....	....	....	1.69	.....	0.91	0	6	....	....	.....	.....	Tennessee Valley Authority.
Calhoun	Mclean	437	34	60.0	+ 2.6	88	25	28	3	36	1.62	−2.61	0.53	T.	6	14	6	10	.....	E. C. Bennett.
Earlington	Hopkins	420	44	61.5	+ 3.7	88	26	26	3	36	2.81	−1.59	1.67	0	8	18	6	6	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	....	....	....	....	....	....	....	0.88	−2.66	0.30	T.	7	....	....	.....	.....	Lockmaster.
Greenville	Muhlenburg	519	21	59.2	+ 1.9	85	26	24	3	37	2.86	−1.50	1.30	0	6	15	14	1	s.	C. R. Lovell.
Henderson	Henderson	382	16	58.9	.....	83	26	27	3	34	1.75	−1.75	0.90	0	8	12	13	5	se.	Frank Street.
Hopkinsville	Christian	524	42	60.6	+ 3.0	85	26†	24	3	32	2.80	−1.51	0.98	0	8	17	11	2	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	59.0	+ 1.1	85	26	25	3	36	1.59	−2.29	0.55	0	4	16	11	3	s.	Blaine Malone.
Mayfield	Calloway	364	29	59.0	+ 0.7	86	27†	26	3	34	1.48	−2.74	0.60	0	10	16	11	3	s.	Mrs. Joe Payne.
Murray	Graves	412	12	60.7	+ 3.2	90	26	30	3	37	1.67	−3.04	0.44	0	8	17	3	10	s.	Pat W. Wear.
Owensboro	Daviess	420	41	58.6	+ 2.9	85	26	27	3	34	1.09	−2.87	0.35	T.	6	14	5	11	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	....	....	....	....	....	....	....	0.86	−2.62	0.26	T.	10	....	....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	60.9	+ 1.7	84	25†	28	3	34	2.11	−2.31	1.10	0	10	12	6	12	.....	Joe Lagore.
Princeton	Caldwell	529	31	61.0	+ 2.9	87	26†	25	3	35	1.42	−2.96	0.83	0	10	12	15	3	s.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	21	....	....	....	....	....	....	....	1.72	−2.42	0.60	T.	10	....	....	.....	.....	Lockmaster.
Russellville	Logan	590	25	59.0	+ 1.6	84	26	25	3	36	2.15	−2.45	0.61	0	8	12	9	9	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	....	....	....	....	....	....	....	1.91	−1.54	0.61	0	11	....	....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	....	....	....	....	....	....	....	1.82	−1.87	0.49	0	11	....	....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	57.5	+ 3.7	85	26†	22	3	36	2.31	−1.49	0.55	T.	9	15	8	7	sw	C. E. Barret.
Bowling Green	Warren	500	42	62.6	+ 4.1	89	26	29	3	34	2.96	−1.38	0.80	0	9	14	6	10	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	21	....	....	....	....	....	....	....	1.60	−2.78	0.36	0	10	....	....	.....	.....	Lockmaster.
Burnside	Pulaski	705	47	....	....	....	....	....	....	....	4.97	+0.77	1.14	T.	11	....	....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	....	....	....	....	....	....	....	2.44	−0.21	0.69	0	6	....	....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	....	....	....	....	....	....	....	2.11	−1.55	0.46	0	11	....	....	.....	.....	Lockmaster.
Danville	Boyle	955	14	58.2	.....	85	26†	26	3	40	2.31	−1.52	0.63	0	12	10	8	12	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	59.8	+ 3.6	87	26	29	2	34	3.08	−0.02	0.80	T.	10	14	9	7	s.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	....	....	....	....	25	3	.....	1.95	−1.99	0.60	0	6	11	10	9	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	58.2	+ 2.5	85	26	28	3	37	3.50	−0.26	0.90	0	10	14	4	12	s.	Lockmaster.
Gest, Lock 3	Henry	490	28	....	....	....	....	....	....	....	2.61	−1.18	0.93	0	8	....	....	.....	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	....	....	....	....	....	....	....	1.74	−1.60	0.51	0	9	....	....	.....	.....	Lockmaster.
Greensburg	Green	581	45	58.6	+ 3.1	89	26	25	3	38	2.73	−1.16	0.77	0	11	3	5	22	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	....	....	....	....	....	....	....	3.62	+0.11	1.07	0	11	....	....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	40	60.0	+ 3.8	85	26	30	3	30	1.43	−2.53	0.73	T.	6	14	5	11	sw	W. J. Piggot.
Lancaster	Garrard	1032	12	....	....	....	....	....	....	....	2.18	−0.94	0.59	0	10	....	....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	42	59.2	+ 3.3	83	26	26	3	34	2.21	−2.15	0.40	0	11	10	15	5	sw.	H. H. Willis.
Lexington	Fayette	989	54	57.5	+ 3.2	88	26	26	3	33	3.25	−0.25	1.04	0.1	13	15	6	9	.....	U. S. Weather Bureau.
Little Hickman, Lock 8¶	Jessamine	560	28	....	....	....	....	....	....	....	2.72	−0.68	0.80	0	9	....	....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	....	....	....	....	....	....	....	2.89	−0.84	1.05	0	6	....	....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	59.2	+ 2.8	85	26	31	3	29	2.01	−1.87	0.75	T.	10	9	8	13	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	....	59.3	.....	87	26	29	3	27	1.84	.....	0.48	0	11	....	....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	8	59.0	.....	90	26	24	8†	42	2.26	.....	0.44	T	10	16	10	4	sw.	Ivan J. Ellsworth.
Munfordville	Hart	600	9	....	....	....	....	....	....	....	2.14	−1.60	0.50	0	7	....	....	.....	.....	Mrs. M. W. Price.
St. Jonn	Hardin	777	42	59.8	+ 5.1	87	26†	28	3	33	2.02	−2.22	0.50	0	7	19	6	6	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	....	....	....	....	....	....	....	4.10	+0.44	1.50	0	7	....	....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	45	56.8	+ 2.2	85	26	26	3	30	2.85	−1.06	0.67	0	11	9	2	19	s.	Miss Ruth Ratta.
Shepherdsville	Bullitt	500	1	....	....	....	....	....	....	....	1.80	.....	0.54	0	10	12	8	10	nw.	A. McLeod.
Smith's Grove	Warren	607	....	59.3	.....	86	26	25	3	33	2.77	.....	0.78	0	10	....	....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	59.8	.....	86	26	26	3	33	5.06	.....	1.33	0	11	....	....	.....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	....	....	....	....	....	....	....	3.19	−0.80	0.70	0	10	....	....	.....	.....	Lockmaster.
Williamstown	Grant	943	35	59.6	+ 6.1	88	26	27	3	36	2.78	−0.66	0.75	0	6	16	3	11	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	21	....	....	....	....	....	....	....	3.09	−1.03	1.04	0	8	....	....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	7	....	....	....	....	....	....	....	3.58	.....	0.99	T.	12	10	9	11	sw.	W. A. Worthington.
Ashland	Boyd	534	21	58.3	+ 2.7	89	27	30	3	38	4.28	+0.68	1.50	T.	13	15	6	9	sw.	Lockmaster.
Berea	Madison	1070	35	[b]60.8	+ 5.0	[b]6	26	28[a]	3	40[a]	2.23	−1.42	0.52	T.	10	14	7	9	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	....	....	....	....	....	....	....	3.78	+0.56	0.82	0	11	....	....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	1	58.0	.....	84	26†	27	3	38	1.50	.....	0.85	T.	2	24	4	2	sw.	C. Bertrand Fields,
Cynthiana	Harrison	684	20	....	....	....	....	....	....	....	2.49	−1.17	1.12	0	6	..	....	.....	.....	P. H. Rehoe.
Falmouth	Pendleton	600	49	....	....	....	....	....	....	....	2.15	−1.60	0.55	T.	9	....	....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	31	57.3	+ 2.8	90	26	25	3	44	3.68	−0.02	1.03	0	11	14	5	11	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	....	....	....	....	....	....	....	5.32	+1.43	1.51	0	9	....	....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	....	....	....	....	....	....	....	3.35	+0.10	1.07	0	11	....	....	.....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	....	....	....	....	....	....	....	3.02	−0.47	0.72	0	9	....	....	.....	.....	Lockmaster.
Hazard	Perry	869	14	....	....	....	....	....	....	....	4.37	+1.08	1.25	0	9	....	....	.....	.....	Chas. O. Hrig.
Heidelberg, Lock 14	Lee	663	8	58.4	.....	87	26†	28	3	39	3.13	−0.19	0.66	0	9	6	9	15	sw.	Lockmaster.
Jackson	Breathitt	776	14	....	....	....	....	....	....	....	4.67	.....	0.95	T.	10	....	....	.....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	....	....	....	....	....	....	....	2.86	−0.98	0.63	0.5	10	....	....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	35	....	....	....	....	....	....	....	4.55	+1.21	1.10	0	9	....	....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	58	0 + 3.7	85	27	29	3	35	3.59	+0.02	1.02	T	11	8	16	6	sw.	Lockmaster.
Middlesboro	Bell	1128	39	[c]59.4	+ 2.7	87[c]	26	28[c]	3	39[c]	6.64	+2.16	1.50	0	11	20	9	1	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	56.4	+ 2.5	84	26	25	3	36	2.25	−1.81	1.25	T.	3	14	12	4	w.	W. R. McKee.
Oneida	Clay	.....	1	....	....	....	....	....	....	....	4.65	.....	1.44	0	7	....	....	.....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	....	....	....	....	....	....	....	2.39	−1.55	0.60	T.	14	....	....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	....	....	....	....	....	....	....	3.22	.....	0.97	0	11	....	....	.....	.....	Manuel Robinson.
Pikeville	Pike	636	2	60.2	.....	90	26	30	3	44	4.53	+0.95	1.05	0	13	....	....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	60.8	.....	91	27	28	3	41	4.44	.....	0.95	0	13	13	6	11	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	[a]57.1	+ 0.3	89[a]	26	25[a]	3	41[a]	5.40	+1.17	1.29	0	8	....	....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	3.25	+0.14	0.68	0	10	....	....	.....	.....	Lockmaster.
Richmond	Madison	926	41	60.7	+ 4.6	85	26†	28	3	32	3.72	+0.13	1.00	0	12	14	16	0	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	....	....	....	....	....	....	....	3.04	−0.24	0.91	T.	10	....	....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	....	....	....	....	....	....	....	5.16	+1.42	2.28	0	11	....	....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	41	60.6	+ 4.0	87	26†	30	3	37	4.08	−0.22	1.55	0	10	13	7	10	.....	Wadely West.
Willow, Lock 13	Lee	646	18	....	....	....	....	....	....	....	2.68	−0.14	0.55	0	9	....	....	.....	.....	Lockmaster.
Winchester	Clark	964	....	57.5	.....	84	26	27	3	28	3.68	.....	1.10	0	12	....	....	.....	.....	Airway Station.
State averages and extremes		.....	....	59.8	+ 3.1	91	27	22	3	44	2.85	−1.11	2.28	T.	9	14	8	8	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky. * * Precipitation by U. S. Engineers.

Daily Precipitation for April, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam....G					.01	.15	.67	.12	.04							T.				T.	.06	.10						T.		.49		1.04
Birmingham....T.							.16	.39												.12			.11							.91		1.69
Calhoun....G.					T.	.23	.43	.13	.10							T.				T.		.20						T		.58		1.62
Earlington....G.							.03	.34	.23								.01			T	.04	.11							.08	1.67		2.51
Fords Ferry Dam 50‖....O.		T.			T.	T.	.10	.16	.12	T.							T.		T.		.03	.08						.09	T.	.30		0.88
Greenville....G.						.15	.28	.65	.10									T.										.88		1.35		2.86
Henderson....O.				F.	.05	.03	.25	.24	.04									T.		.20	T.							.04		.96		1.76
Hopkinsville....C.						.08	.98	.23	.22								.03				.21							.65	.40			2.80
Lovelacoville....M.							.15	.55																				.26		.55		1.50
Mayfield....M.						.01	.21	.60	.02							.01	.10	T.		.01		.01						.28		.26		1.48
Murray....T.						.03	.36	.14							.18	.06		.04										.44		.42		1.67
Owensboro....O.			T.	T.	T.	.02	.18	.30	.14	T							T.		T		T.	.10						T.		.35		1.09
Owensboro, Dam 46‖....O.					.02	.01	.12	.15	.13	T									T.	.03	.02	.09							.03	.26		0.86
Paducah....O.					T.		.05	1.10	.26							.03			.04	T.	.02	.13		.01				.07		.40		2.11
Princeton....G.				T.		.03	.32	.02	.04							.01	.05	T.		.01	.04	.07								.88		1.42
Kuttawa, Lock No. 2‖....G.					.02		.22	.42	.16	.02							.02				.04	.20							.02	.60		1.72
Russellville‖....G.							.35	.61	.24									.18			.06	.05							.09	.57		2.15
Uniontown, Dam 49‖....O.					.02	.05	.08	.45	.61	T.							.02		T.	.15	.03	.01						.10		.39		1.91
Central Division																																
Addison, Dam 45‖....O.					.03	.03	.23	.49	.06	.04							.02			.22	T.	.05							.26	.39		1.82
Anchorage....O.				T.	.18	.33	.41	.55	.03							T.	T.	.41		.13								.19		.14		2.31
Bowling Green....G.							.60	.30	.18	.03							.05	T.		.20	.10								.80	.70		2.96
Brownsville, Lock No. 6‖....G.							.27	.30	.15	.01							.03	.25		.11	.03								.09	.26		1.60
Burnside‖....C.	.90		T.				.39	.59	1.14	.06			T.				.02	.66	.16	.20	.29									.56		4.97
Carrollton‖‖ Lock No. 1....K.							.69	.53	.54										.39										.16	.13		2.44
Cold Spring, Dam 36‖....K.	.24	.06	.04	.05	.04	T.	.42	.46	.43	T.							T.	T.	.20		.03	T.							.14	T.		2.11
Danville....K.	.03				.02		.53	.19	.63	.02								.17	.07		.82	.05							.09	.19		2.31
Dix Dam, Burgin‖‖....K.						.63	.16	.80	.03								.32	.63		.26	.18							.06	.06			3.08
Eubank....C.							.60	.55													.60	.05							.05			1.95
Frankfort‖, Lock No. 4....K.		T.	T.		.08		.65	.29	.33	.02							T.	.64	.29			.21							.90	.09		3.50
Gest, Lock No. 3‖....K.		T.			.09		.64	.33	.13								.03	.27	.93	T.	.09								T.	.10		2.61
Grant, Dam 38‖‖....O.		.03	T.	T.	T.		.26	.51	.43	.04							.03	.02	.04	T.	T.								.88			1.74
Greensburg....G.	.10						.58	.15	.55	.01						.02	.01	.28	.77		.22	.04											2.73
High Bridge, Lock No. 7‖....K.	.58				.03	T.	.76	.19	1.07	.06							T.	.52	.10		.06	.24								T.	.06		3.64
Irvington....O.		T.		T.	.03	.12	.19	.73										T		T		.14						T.		.22		1.43
Lancaster‖....K.				.03		.53	.14	.43	.63								.15	.12		.47	.05									.17		2.18
Leitchfield....G.		T.			.12	.06	.37	.19	.14							T.	.03	.40			.25	.10						.22		.33		2.21
Lexington ***....K.		T.			.03	.53	.22	.63	.26								.14	1.04		.01	.12	.12						.03	.01	.06		3.25
Little Hickman, Lock No. 8‖....K.							.80	.10	.56									.30	.40		.30	.10							.06	.10		2.72
Lockport, Lock No. 2‖....K.	.15						.60	.45	.47	T								.17	1.05	T.												2.89
Louisville***....O.		T.			.13	.40	.58	.14	.04							T.	T.	.18		.28	.01							.18		.12		2.01
Do. Bowman Field....O.		T.	T.		.14	.18	.29	.48	T.							T.	.02	.15		.13	.13	.03						.18		.14		1.84
Mammoth Cave....G.					T.	.16	.42	.14	.16	T.								.39		.21	.15	.05						.17		.44		2.26
Munfordville....G.							.50	.36	.20											.40	.10		.10	T.						.48		2.14
St. John....S.					T.		.50	.40	.10								T.	.45				.05	.20						T.	.32		2.02
Salvisa, Lock No 6‖....K.					T.		.74	.22	1.04	T.								1.50		.35			.18							.07		4.10
Shelbyville....S.			T.		.16		.48	.25	.12	.03								.67		.25		.10	.17					.51		.11		2.85
Shepherdsville....S.		T.		.01	.03	.04	.44	.24	.09							.01		.54				.28								.12		1.80
Smith's Grove....G.	T.					.16	.19	.28	.23									.26		.25	.36	.08						.23		.73		2.77
Stearns....T.	T.						.22	.94	.26	.08								.79	.03		.75	1.33	.01							.03	.62		5.06
Tyrone, Lock No. 5‖....K.	.05	T.					.68	.20	.65	.05								.70	.65			.15							.18	.08		3.19
Williamstown....L.							.75	.45	.65									.37	.41											.15		2.78
Woodbury, Lock No. 4‖....G.							.30	.61	.39									.41			.05	.04						.25	1.04		3.09
Eastern Division																																
Annville....C.	.54		.01				.36	.27	.45	.11								.99	.06		.12	.60							.03	.04		3.58
Ashland‖....O.	.15		.01		.02		.32	.12	1.50	.23							T.	.40	.53		.82	.04							.11	.03		4.28
Berea....K.					.01	.06	.47	.10	.48								.02	.52	.02	.43										.19		2.23
College Hill, Lock No. 11‖‖....K.	.35				.03		.82	.16	.56	.08								.39	.36		.73	.26							.04			3.78
Cumberland....C.						T.		.85	.65									T.		T.		T.										1.50
Cynthiana‖....L.			T.		T.		.66		.20	.31								1.12	T		.10									.10		2.49
Falmouth‖....L.	.02	T.	T.				.48	.40	.55	.04							T.	.17	.80		T.	.07								.16		2.16
Farmers‖....L.	.82						1.03	.10	.18	.02								.71	.55			.11	.03						.06	.06		3.68
Flemingsburg‖....L.	.30		.16				1.05	.20	.88									1.51	.33			.19								.20		5.32
Ford, Lock No. 10‖‖....K.	.44	T.	T.		.03	T.	1.07	.09	.30	.08								.27	.83		.11	.11							T.	.02		3.35
Greenup Dam 30‖‖....O.	.28				.05		.53	.26	.37	.09								.72	.51		T.	.21								T.			3.02
Hazard‖‖....K.							.52	.22	.57	.08								1.25	.50		.42	.76								.05			4.37
Heidelberg, Lock No. 14‖....K.	.56				T.		.53	.18	.25	.16								.55	.55		.05	.23											3.13
Jackson....K.	.15	.22					.62	.25	.55	.18								.95	.55		.45	.75											4.67
Jenkins‖....B.	.02						.50	.15	.62	.05								.63	.16		.49	.22	.02						T.				2.86
Louisa‖....B.	.18						.62	.23	1.10									.88	.57	.60	.30								.07				4.55
Maysville‖, Dam 33....O.	.34	T.					.65	.21	1.02	.10							.01	.84	.27		.02	.09								.04			3.89
Middlesboro....C.						.05	.25	1.20	.44		.03						.78	.41	.09	1.50	.61									1.38			6.64
Mount Sterling....L.		T.				T.	T.	T.	T.							.70	1.25			T.	T.							.30		T.			2.25
Oneida....K.	1.44						.39	.36	.75									.90			.26	.55											4.65
Oneonta Dam 35‖....O.	.25	.02	T.	.03	.02	T.	.33	.48	.60	.02							T.	.03	.86		.01	.02							.19	.03			2.39
Paintsville ‖....B.	.28		.03		.05		.53	.18	.33	.22								.97	.10		.12	.41							T.				3.22
Pikeville‖....B.	.18		.02		.05		.67	.05	.38	.26								.55	.42		.80	1.68	.03							.04			4.58
Pippapass....K.	.04	.03					.62	.55	.50	.06							.85		.68	.28	.40	.95							.10	.13			4.44
Quicksand‖....K.							1.29	.30	.70	.19								1.05	.47		.50	.90											5.40
Ravenna, Lock No. 12‖....K.	.40		T.		.08		.44	.68	.55	.11							T	.46	.28		.15	.10							T.	T.			3.25
Richmond....K.	.30				.05		1.00	.10	.70	.02								.80	.25		.80	.10								.05	.05		3.72
Valley View, Lock No. 9‖....K.			.04			T.	.91	.10	.91	.04								.35	.32		.16	.14							T.	.07			3.04
Vanceburg, Dam No. 32‖....O.	.45			.04			.68	.28	.39	.11							.05	2.28	.70			.14								.04			5.16
Williamsburg‖....C.	.22						.13	.99	.20									1.56	.24		.25	.34	.03					.08					4.03
Willow, Lock No. 13‖....K.	.55						.54	.21	.23	.02								.45	.38		.08	.18											2.63
Winchester....K.	.46	T.	.02		.01		1.10	.11	.27	.08								.82	.25		.12	.17							.13	T.			3.03

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississipi.

Daily Temperatures for April, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	59	48	58	64	64	68	58	68	51	61	69	76	81	80	82	74	82	78	83	75	75	68	70	78	86	88	84	81	77	76	..	72.1
	Minimum	38	34	26	42	39	48	46	46	34	28	40	49	53	56	56	60	60	60	53	67	52	46	42	60	60	52	56	63	46	52	..	48.0
Calhoun	Maximum	58	50	60	62	65	70	64	62	60	61	69	78	81	81	82	74	83	80	79	71	74	66	70	79	87	86	85	84	77	74	..	72.0
	Minimum	40	39	28	40	41	56	45	44	33	29	42	47	46	60	53	61	60	60	59	68	64	47	38	50	61	52	53	62	46	53	..	47.9
Earlington	Maximum	65	55	59	63	70	69	60	60	51	60	69	77	81	81	81	78	81	80	83	83	74	70	72	79	85	88	86	83	82	78	..	73.4
	Minimum	40	38	26	40	42	69	60	46	33	28	44	54	52	58	58	58	64	62	62	64	63	53	47	38	48	50	63	60	65	48	64	..	49.6
Greenville	Maximum	61	52	69	64	69	67	60	64	50	58	67	75	80	80	80	74	82	80	82	76	75	68	71	77	84	85	82	80	77	74	..	71.8
	Minimum	39	35	24	41	40	53	46	46	32	26	40	50	58	56	52	49	60	67	64	60	50	45	39	45	47	60	54	62	45	50	..	46.6
Henderson	Maximum	57	48	58	64	64	71	59	64	49	69	68	75	79	78	77	72	80	79	81	75	76	64	70	69	82	83	81	76	74	75	..	69.9
	Minimum	37	35	27	39	38	55	42	43	33	26	40	60	68	67	57	63	61	60	53	56	51	45	36	51	52	53	58	62	48	65	..	47.9
Hopkinsville	Maximum	63	50	60	69	74	67	62	65	53	62	68	76	81	80	82	72	81	79	81	74	65	67	71	78	83	85	85	81	84	75	..	72.4
	Minimum	44	37	34	41	41	69	56	45	34	27	37	44	54	53	55	62	59	57	65	69	54	47	43	49	51	58	54	62	47	47	..	48.8
Lovelaceville	Maximum	61	53	59	66	70	60	45	50	68	63	74	78	77	79	75	78	78	82	80	78	73	78	86	87	85	83	79	79	71	..	..	70.8
	Minimum	40	36	26	41	44	59	45	42	32	27	38	46	60	64	52	60	60	58	55	58	53	44	36	49	48	64	52	62	51	44	..	47.2
Mayfield	Maximum	55	65	60	62	73	70	61	50	50	55	62	70	72	73	80	72	72	78	79	75	70	67	70	71	76	79	80	80	76	76	..	69.0
	Minimum	42	36	26	40	43	58	47	42	32	30	42	47	53	65	68	61	68	58	58	56	52	45	40	52	53	57	62	62	49	69	..	49.1
Murray	Maximum	60	54	58	60	70	68	59	50	56	68	76	80	81	76	65	70	79	78	79	70	73	77	80	78	87	90	86	86	69	79	..	71.8
	Minimum	45	37	30	45	46	69	49	40	34	31	42	45	49	68	59	62	69	59	60	59	59	54	44	53	49	45	60	52	64	62	60	..	49.6
Owensboro	Maximum	60	62	62	60	64	70	60	60	60	46	66	76	79	78	80	78	80	78	82	79	72	62	68	75	83	85	84	82	76	74	..	70.7
	Minimum	39	38	27	40	40	62	42	42	31	28	42	47	49	53	54	60	57	48	51	59	52	45	41	51	49	63	54	60	46	52	..	46.6
Paducah	Maximum	64	56	60	67	71	70	65	48	51	60	65	75	80	79	81	76	80	79	82	77	74	74	72	75	84	84	83	81	78	77	..	72.3
	Minimum	41	37	28	40	43	58	46	43	33	29	38	48	56	57	60	62	61	59	57	59	55	46	39	53	50	56	60	63	47	59	..	49.5
Princeton	Maximum	61	60	60	68	73	71	60	58	56	63	69	78	82	82	83	76	81	79	86	72	72	68	73	78	86	87	87	82	78	77	..	73.2
	Minimum	42	37	25	40	44	60	48	46	34	28	36	47	48	51	57	64	60	69	54	58	62	47	40	53	51	55	56	60	58	68	..	48.9
Russellville§§	Maximum	62	42	57	64	73	66	67	58	45	32	64	76	81	81	80	72	82	78	81	74	73	65	68	77	82	84	82	82	76	78	..	70.0
	Minimum	48	37	25	30	38	44	56	49	33	28	60	52	52	53	55	60	57	57	55	60	47	47	39	45	53	51	56	59	46	51	..	47.9
Central Division.																																	
Anchorage	Maximum	59	47	55	56	60	72	56	70	52	53	70	75	80	80	82	80	82	71	82	73	74	75	64	75	83	85	85	80	78	71	..	70.7
	Minimum	37	32	22	35	38	48	38	41	33	24	34	44	46	52	52	51	56	54	57	65	41	42	38	48	50	54	56	59	45	48	..	44.3
Bowling Green	Maximum	67	56	60	68	75	70	61	71	59	62	70	78	83	82	84	76	84	79	85	76	78	70	78	80	85	89	87	82	78	78	..	74.9
	Minimum	46	39	29	41	40	50	56	52	37	32	37	47	52	54	57	58	60	58	58	61	54	51	43	49	55	55	69	61	52	54	..	50.2
Danville	Maximum	63	59	54	58	55	73	56	76	60	59	67	71	79	80	79	79	81	75	82	76	78	62	63	74	81	86	85	84	75	71	..	71.3
	Minimum	40	32	26	39	38	40	42	47	32	29	38	44	49	52	53	49	59	56	42	61	50	47	37	41	44	49	56	59	47	50	..	45.1
Dix Dam	Maximum	68	60	59	68	68	73	60	75	60	59	67	73	80	81	81	80	80	76	82	77	66	65	65	75	83	87	86	84	69	73	..	72.0
	Minimum	43	37	29	42	43	46	44	48	35	31	36	45	50	50	53	52	60	58	50	61	53	50	40	45	52	58	66	61	57	53	..	47.6
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	36	33	25	40	37	41	48	51	34	27	35	44	45	49	53	51	53	49	56	56	52	48	37	49	48	52	48	52	44	45	..	44.6
Frankfort	Maximum	62	55	54	56	57	73	59	75	66	61	66	73	80	79	81	78	82	71	82	77	68	66	62	75	84	85	84	80	73	75	..	71.3
	Minimum	41	36	28	38	40	44	40	41	35	31	33	41	45	50	51	49	57	55	45	59	64	48	37	46	50	51	53	58	46	50	..	45.1
Greensburg	Maximum	63	55	57	65	66	71	59	77	65	61	68	76	81	80	82	79	82	76	82	72	74	71	69	76	84	89	87	81	78	73	..	73.3
	Minimum	40	36	25	41	36	43	46	49	34	25	30	44	45	46	51	49	58	55	47	59	51	48	34	40	46	49	61	58	45	46	..	43.9
Irvington	Maximum	58	52	56	57	60	69	58	70	56	58	66	74	79	78	78	76	82	76	80	74	72	67	65	75	82	85	84	80	73	73	..	70.4
	Minimum	42	36	30	41	42	54	41	42	34	33	42	50	55	57	56	63	66	59	52	60	54	47	40	52	53	55	63	64	52	54	..	49.6
Leitchfield	Maximum	59	50	57	62	61	68	57	68	54	58	67	73	80	78	80	74	81	77	80	75	74	65	67	77	82	88	82	80	75	72	..	70.7
	Minimum	40	35	26	40	39	50	42	44	34	30	38	48	53	55	56	60	60	58	55	60	50	44	41	48	53	54	58	61	50	62	..	47.8
Lexington	Maximum	61	42	52	52	67	73	54	76	49	59	66	73	78	79	79	78	79	72	80	73	65	62	66	72	83	88	85	80	78	72	..	69.3
	Minimum	39	28	26	37	40	47	40	46	31	27	37	46	51	54	56	56	58	51	50	55	53	48	37	48	52	55	58	53	48	50	..	45.7
Louisville	Maximum	56	40	55	53	57	70	47	70	45	57	64	73	78	78	80	76	79	72	79	68	73	61	62	74	82	85	83	79	73	71	..	68.0
	Minimum	40	35	31	40	46	39	41	33	36	44	52	59	61	61	61	63	60	66	57	54	47	43	54	60	60	64	62	54	53	..	..	50.3
Do. Bowman Field	Maximum	64	57	56	52	66	72	47	71	46	58	65	74	78	79	81	77	80	72	80	66	71	61	66	78	82	87	84	80	72	71	..	69.8
	Minimum	42	38	29	39	41	49	40	43	35	31	41	49	53	63	59	59	63	61	53	64	60	47	41	51	54	55	61	64	51	53	..	49.3
Mammoth Cave	Maximum	47	67	56	65	68	70	58	70	64	69	67	75	79	82	81	85	83	78	86	79	75	72	68	77	82	90	88	80	78	72	..	73.1
	Minimum	39	34	24	24	37	42	47	48	32	26	37	48	42	51	53	55	60	56	52	59	51	48	36	40	49	48	57	62	45	46	..	44.9
St. John	Maximum	67	55	55	62	59	72	60	71	67	68	68	74	79	79	81	79	81	81	78	74	74	72	65	76	86	87	87	86	86	73	..	73.0
	Minimum	40	37	28	41	39	48	41	43	34	29	35	46	48	51	54	56	60	62	49	60	52	46	40	48	53	55	64	61	44	51	..	46.5
Shelbyville	Maximum	58	49	53	52	55	69	58	62	60	55	62	68	78	78	74	75	79	73	77	74	68	65	66	73	82	85	81	78	72	70	..	68.3
	Minimum	39	33	26	36	38	45	38	41	33	28	36	48	49	53	53	54	56	54	49	58	52	45	36	49	51	55	57	56	47	50	..	45.3
Smith's Grove	Maximum	61	43	56	64	72	70	56	69	46	59	69	74	80	81	83	79	82	74	82	73	78	67	70	78	83	86	84	84	75	73	..	71.7
	Minimum	44	38	26	38	38	47	53	51	38	30	38	46	48	60	56	59	60	56	63	59	62	50	40	46	50	53	59	60	60	52	..	48.0
Stearns	Maximum	59	46	52	62	72	69	70	57	57	57	65	70	78	80	79	76	74	74	82	75	72	66	68	77	82	84	82	82	74	68	..	70.8
	Minimum	46	38	26	37	40	52	54	57	37	40	35	48	51	53	58	58	61	55	55	60	58	48	35	44	51	52	58	57	52	48	..	48.8
Williamstown	Maximum	65	55	64	66	69	70	58	78	67	60	68	75	80	81	83	80	81	74	83	82	74	72	67	77	84	88	88	87	77	74	..	72.9
	Minimum	40	35	27	35	36	41	36	40	34	29	37	47	52	55	56	65	60	58	60	62	52	45	36	46	54	52	60	62	50	50	..	46.4
Eastern Division.																																	
Ashland	Maximum	61	61	51	58	55	77	65	79	71	57	70	73	80	83	79	82	73	70	81	79	67	64	61	77	80	82	89	84	72	74	..	71.8
	Minimum	40	36	30	37	35	43	41	46	35	32	38	43	44	48	49	48	59	59	46	66	61	52	39	40	49	49	51	55	53	44	..	44.8
Berea	Maximum	..	67	49	68	55	73	69	77	74	58	68	71	78	81	80	78	80	75	83	78	76	62	74	65	80	86	86	86	78	75	..	*72.8
	Minimum	..	32	28	43	40	50	46	50	34	29	45	50	44	55	64	55	63	66	51	57	65	54	45	40	52	65	60	64	49	40	..	*48.8
Cumberland	Maximum	65	66	57	59	67	75	66	72	74	70	69	70	76	80	78	74	68	70	76	69	69	65	73	69	75	84	84	81	80	82	..	72.3
	Minimum	40	45	27	30	37	37	55	52	34	30	29	29	40	44	55	58	60	58	58	54	50	50	56	52	60	57	56	60	53	54	..	43.8
Farmers	Maximum	66	57	51	65	58	73	72	77	68	57	70	73	80	83	81	81	81	77	82	82	79	78	64	74	82	90	88	87	74	72	..	73.4
	Minimum	34	33	25	34	37	62	40	44	34	26	26	35	39	41	40	43	50	54	42	52	51	48	31	36	43	55	66	46	42	..	..	41.2
Heidelberg	Maximum	67	57	51	58	58	75	60	77	74	58	68	71	80	81	79	81	78	75	80	77	70	66	68	68	83	87	87	83	77	70	..	72.2
	Minimum	41	38	28	43	42	38	53	45	36	29	41	40	41	45	49	45	51	60	46	53	57	52	35	38	48	47	52	51	49	49	..	44.6
Maysville	Maximum	61	55	52	53	58	75	60	70	61	60	67	71	79	80	78	80	81	72	82	80	68	61	64	76	80	85	83	82	76	77	..	70.7
	Minimum	40	37	29	39	37	43	40	46	36	32	33	43	46	49	50	49	57	56	47	57	53	51	34	44	53	48	52	56	51	51	..	45.3
Middlesboro	Maximum	72	65	58	..	69	72	68	70	69	60	67	68	78	79	78	79	74	73	79	77	71	..	71	74	81	87	84	80	..	78	..	*73.4
	Minimum	51	39	28	..	39	39	55	49	35	31	30	43	42	44	60	45	58	58	51	57	58	..	36	39	45	48	57	58	..	44	..	*45.5
Mount Sterling	Maximum	60	50	45	50	60	75	56	76	46	60	65	68	76	80	80	79	80	80	79	80	66	66	70	75	80	84	80	81	82	68	..	69.6
	Minimum	45	33	25	30	34	42	42	46	28	27	30	36	50	50	50	60	43	48	45	49	50	50	30	36	50	48	50	53	52	46	..	43.1
Pikeville	Maximum	63	50	52	60	69	79	64	80	50	60	72	76	81	84	80	82	83	79	83	78	76	70	70	82	85	90	86	86	80	71	..	73.8
	Minimum	50	40	30	37	40	48	55	60	49	32	31	40	42	47	50	48	65	58	50	59	58	53	36	38	49	62	53	52	55	47	..	46.5
Pippapass	Maximum	72	70	59	60	65	78	67	80	61	55	71	74	81	85	82	86	77	81	83	80	85	72	75	70	85	90	91	85	85	83	..	76.3
	Minimum	47	45	28	38	40	58	54	54	34	30	32	43	42	47	50	47	60	54	47	51	53	51	53	38	36	49	51	52	51	52	..	45.2
Quicksand	Maximum	71	66	51	57	61	77	66	78	42	49	58	70	80	88	..	82	75	76	81	86	69	71	68	75	84	89	87	84	77	70	..	*71.9
	Minimum	37	39	25	33	40	36	51	36	33	29	29	38	40	44	..	44	61	64	46	53	55	50	36	37	46	48	49	48	44	..	..	*42.3
Richmond	Maximum	60	42	54	60	58	74	60	77	50	60	68	72	80	80	82	80	80	74	80	78	70	68	70	78	82	85	85	85	75	75	..	71.2
	Minimum	44	38	28	40	42	48	45	50	40	30	40	50	55	60	60	60	62	58	54	62	55	50	38	50	57	58	63	63	52	63	..	50 2
Williamsburg	Maximum	61	57	61	65	72	76	71	75	68	63	69	74	80	83	80	78	80	82	84	74	76	75	64	81	83	87	87	81	78	69	..	74.1
	Minimum	47	31	30	35	39	43	55	64	37	29	32	43	43	47	53	51	52	61	63	59	59	54	43	40	48	51	51	55	53	48	..	47.0
Winchester	Maximum	58	40	50	52	55	71	67	74	46	56	64	68	76	77	77	76	76	72	78	76	66	60	63	72	79	84	82	78	72	70	..	67.5
	Minimum	41	36	27	38	40	44	42	46	40	27	37	48	61	55	57	56	60	58	48	60	53	47	36	45	54	56	60	61	50	61	..	47.5

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

'.' '.' etc. indicate respectively 1, 2, 3 etc. days missing from record.

Errata.—February, page 6: Mean temperature at Murray should be 46.9 and at Farmers, 43.1. Page 8: Mean maximum at Murry should be 53.9 and at Farmers, 55.0.

W B O Louisville. 5-23-38 1 109

1.05
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., MAY, 1938 No. 5

GENERAL SUMMARY.

Dry weather continued through the first two weeks in the western and most northern counties. In the dry areas considerable wheat and other grains headed short. The soil became too dry for the preparation of corn and tobacco land to be completed. Germination of corn planted at this time was adversely affected. Tobacco plants in the drier districts were brought forward by hand watering. Near the south border and in some eastern sections the rainfall was sufficient during this period. In the second week good rains occurred in some central and most eastern counties. Transplanting of tobacco began near the middle of the month, mainly by machine on the smoother lands. As a rule the rainfall had not been heavy enough for hand setting in the hilly areas. Plants were nearly a week earlier than usual, and ahead of land preparation in places, because of the delay due to the dry weather. Heavy to excessive rains in the third week brought abundant moisture to all districts, followed by general improvement in crops and pastures. Wheat heads improved, and premature ripening in the western counties was checked. On the eastern uplands, where the crop develops later, rank growth of straw resulted and there was considerable falling as the rains continued.

Except for transplanting tobacco, which was favored by the showery weather, the frequency of rain in the last half interfered with all farm operations. On the few fair days, when the ground could be worked, most tobacco land was prepared. Much corn land in the northern counties had not been planted or remained unbroken at the end of the month. The cutting of old clover and first crop alfalfa was delayed. Cutworm depredations were prolonged by the cool damp weather.

After the rains began tobacco setting by hand was possible on all except a few days. With this favorable weather and early plants, a larger proportion of the corn crop than usual was put out in this month. Pastures became luxuriant toward the end. Barley harvest occurred in the central and western counties in the last week. Wheat in southwestern districts was practically ripe at the end. Cotton was planted earlier than usual and developed exceptionally well.

TEMPERATURE.

Although the temperature averaged near normal, it was quite variable during most of the month. In the first and third weeks temperatures much above normal prevailed. The second week was decidedly cool, with frost that damaged tender vegetation on lowlands reported from northeastern districts on the 12th and 13th. Extremes for the State were 93° at Pikeville on the 19th and 32° at Mt. Sterling on the 13th.

PRECIPITATION.

In most of the State precipitation ranged from normal to twice that amount. Limited areas in the lower Green River Valley and the southeastern counties received 8.0 inches or more. In most other sections it varied from 4.0 to 6.0 inches. In some extreme western and northern districts less than 3.0 inches occurred. The range for the State was between 2.55 inches at Grant, Boone County, and 8.46 inches at Addison and Owensboro. Light scattered showers occurred on the 1st and 8th. From the 8th to 24th measureable amounts were recorded on every day. Heavy to excessive rains visited most sections in the period 21st-24th. Some central and eastern localities also received heavy rainfall on the 14th. Irregularly distributed rains, which were heavy locally, occurred from the 28th to 31st. Days with thunderstorms were: 4, 5, 7, 8, 11, 15, 19, 20, 21, 22, 23, 26, 27, 28, 29.

MISCELLANEOUS.

Rivers.—A rise that began in the upper Ohio on the 20th was augmented by continued heavy rains. It caused flooding of lowlands along the Ohio in the last week. Flood stage was reached at Cairo, Illinois, on the 30th. Crest stages near flood levels occurred in the Evansville district.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.92	30.24	24	29.55	4	8.7	26	nw.	23	79	56	62	70
Cincinnati .....Ohio	29.95	30.25	24	29.43	14	6.9	24	sw.	15	83	56	66	62
Evansville.....Ind.	29.93	30.19	24	29.58	14	9.2	34	nw.	14	75	52	57	67
Louisville .....Ky.	29.96	30.23	24	29.62	14	10.3	43	nw.	21	80	53	58	62

COMPARATIVE DATA FOR MAY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	63.6	94	28	4.03	....	..	..	..	..
1890	63.9	93	32	4.22	....	..	..	..	..
1891	62.6	90	29	1.78	....	..	..	..	..
1892	64.6	90	36	5.49	....	..	..	..	..
1893	63.2	96	37	5.59	....	..	..	..	..
1894	64.5	99	32	3.54	....	..	..	..	..
1895	63.9	99	29	3.16	....	8	13	10	8
1896	72.2	106	42	5.34	....	11	14	11	6
1897	61.4	92	32	3.27	T.	10	15	9	7
1898	67.6	93	31	4.52	0.2	10	14	11	6
1899	68.8	94	42	4.79	0	11	11	12	8
1900	66.3	96	29	3.49	0	10	15	8	8
1901	63.7	97	34	2.65	0	10	12	9	10
1902	70.0	98	35	3.55	0	9	17	9	5
1903	68.0	98	29	3.09	0	8	15	10	6
1904	65.0	98	33	3.05	0	10	14	9	8
1905	68.0	95	38	5.23	0	11	12	9	10
1906	69.5	95	31	2.54	T	9	16	7	8
1907	61.3	93	30	5.07	0	12	12	7	12
1908	66.7	96	28	4.34	0	12	13	8	10
1909	63.9	93	27	4.64	T	12	13	7	11
1910	61.1	89	30	4.81	0	12	13	6	12
1911	69.4	105	29	2.46	0	5	22	5	4
1912	66.7	97	37	4.53	0	10	16	6	9
1913	66.1	99	29	2.92	0	8	16	7	8
1914	66.5	103	32	2.16	0	5	20	6	5
1915	65.2	95	35	6.62	0	15	9	8	14
1916	67.2	98	33	4.02	0	9	14	9	8
1917	58.9	92	30	3.43	0	10	12	8	11
1918	69.4	97	28	4.29	0	8	16	8	7
1919	63.9	95	35	6.05	0	14	9	8	14
1920	64.2	94	32	4.08	0	11	13	7	11
1921	65.9	97	32	2.45	0	8	16	8	7
1922	67.9	94	35	3.87	0	10	14	10	7
1923	63.9	91	27	3.98	T.	13	11	8	12
1924	59.9	92	34	5.04	0	14	10	9	12
1925	61.2	98	28	2.61	T.	8	16	8	7
1926	66.2	101	31	2.36	0	7	17	8	6
1927	65.7	93	31	7.44	0	16	10	10	11
1928	63.2	94	29	3.55	0	9	16	7	8
1929	64.1	98	32	7.35	T.	14	12	8	11
1930	66.5	94	33	2.96	0	9	15	8	8
1931	62.7	97	30	2.59	0	11	13	8	10
1932	65.1	92	33	1.39	0	6	18	8	5
1933	68.7	95	40	6.43	0	15	11	9	11
1934	67.7	99	36	1.67	0	5	20	6	5
1935	63.5	91	26	7.40	0	14	11	9	11
1936	68.3	96	35	1.50	0	5	22	6	3
1937	65.2	99	36	4.01	0	10	16	7	8
1938	65.7	93	32	5.73	0	14	11	10	10
Period	65.4	106	27	4.02	T.	10	14	9	8

†49 year averages.

Climatological Data for May, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	...	66.6	+ 0.3	89	19	40	9	40	5.73	+1.50	1.48	0	16	15	10	6	s.	Eldred G. Yonng.
Birmingham	Marshall	....	2	....	....	....	....	....	....	....	5.18	.....	0.89	0	11	....	....	....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	34	67.2	+ 0.6	89	19	40	9†	38	7.74	+3.76	2.35	0	10	9	5	16	.....	R. C. Bennett.
Earlington	Hopkins	420	44	67.8	+ 0.8	89	19	40	9	32	5.2[f]	+1.18	1.79	0	15	17	4	10	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	....	....	....	....	....	....	....	3.25	+0.27	0.47	0	15	....	....	....	.....	Lockmaster.
Greenville	Muhlenburg	519	21	65.2	0.0	87	19	39	19	35	5.10	+0.84	0.95	0	15	12	16	3	s.	C. R. Lovell.
Henderson	Henderson	382	16	65.0	.....	85	20	39	12†	34	4.89	+0.96	1.82	0	12	11	14	6	sw	Frank Street.
Hopkinsville	Christian	524	42	67.1	− 0.1	89	19	39	9	33	6.20	+2.08	1.17	0	12	17	12	2	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	66.6	− 0.4	86	18	38	8	34	2.90	−0.60	0.72	0	7	16	10	5	s.	Blaine Malone.
Mayfield	Calloway	364	29	66.6	+ 0.1	85	19†	41	9	34	4.35	+0.85	0.75	0	12	17	10	4	s.	Mrs. Joe Payne.
Murray	Graves	412	12	....	....	....	....	....	....	....	4.80	+0.30	0.97	0	10	13	0	18	s.	Pat W. Wear.
Owensboro	Daviess	420	41	65.4	0.0	87	19	39	9	35	8.46	+4.53	2.19	0	14	9	10	11	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	....	....	....	....	....	....	....	7.51	+3.69	2.25	0	15	....	....	....	.....	Lockmaster.
Paducah **	McCracken	341	18	68.1	− 1.6	87	19†	42	9	37	3.13	−0.81	0.62	0	15	15	9	7	.....	Joe Lagore.
Princeton	Caldwell	529	31	67.6	+ 0.8	90	19	41	9	34	5.36	+1.24	1.50	0	15	9	17	5	s.	Dr. W. L. Cash.
Rnmsey, Lock 2 ‡	McLean	384	21	....	....	....	....	....	....	....	7.74	+3.50	2.12	0	15	....	....	....	.....	Lockmaster.
Russellville	Logan	590	25	*61.6	− 4.1	89[b]	19	40[b]	9	36[b]	6.20	+2.33	1.58	0	11	16	5	10	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	....	....	....	....	....	....	....	4.11	+0.93	1.24	0	15	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	....	....	....	....	....	....	....	8.46	+4.44	1.90	0	13	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	38	64.2	+ 0.8	85	27	34	13	36	5.02	+1.29	1.63	0	13	9	8	14	sw	C. E. Barret.
Bowling Green	Warren	500	42	67.5	0.0	93	19	42	12	35	4.34	+0.15	1.16	0	15	12	9	10	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	21	....	....	....	....	....	....	....	7.03	+3.09	2.42	0	13	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	47	....	....	....	....	....	....	....	6.48	+1.98	1.12	0	19	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	....	....	....	....	....	....	....	4.35	+1.62	1.84	0	12	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	....	....	....	....	....	....	....	5.71	+1.86	2.15	0	18	....	....	....	.....	Lockmaster.
Danville	Boyle	955	14	64.6	0.0	89	19	35	13	44	7.06	+3.05	1.78	0	18	8	11	12	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	66.8	+ 1.9	90	19	42	1†	43	7.97	+4.50	2.80	0	15	7	15	9	s.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	....	....	....	....	36	9	.....	5.20	+0.75	2.05	0	11	5	13	13	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	65.6	+ 0.4	90	19	34	13	45	4.61	+1.33	1.08	0	12	9	14	8	w.	Lockmaster.
Gest, Lock 3	Henry	490	28	....	....	....	....	....	....	....	5.27	+1.97	2.05	0	12	....	....	....	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	....	....	....	....	....	....	....	2.55	−0.54	0.58	0	10	....	....	....	.....	Lockmaster.
Greensburg	Green	581	45	65.5	+ 1.0	90	19	36	9†	40	5.10	+0.72	1.32	0	12	4	1	26	se.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	....	....	....	....	....	....	....	6.57	+2.91	1.64	0	16	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	40	66.2	+ 0.2	87	19	40	13	33	7.11	+3.38	2.87	0	14	12	7	12	sw.	W. J. Piggot.
Lancaster	Garrard	1032	12	....	....	....	....	....	....	....	6.91	+2.56	1.20	0	17	....	....	....	.....	Walter Killion.
Leitchfield	Grayson	635	42	66.1	+ 0.8	88	19	40	9†	38	5.53	+1.46	2.27	0	15	6	20	5	sw.	H. H. Willis.
Lexington	Fayette	989	54	65.2	+ 0.9	89	19	36	12	38	4.75	+0.94	1.10	0	18	13	8	10	.....	U. S. Weather Bureau.
LittleHickman, Lock 8¶	Jessamine	560	28	....	....	....	....	....	....	....	7.55	+3.77	1.85	0	14	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	....	....	....	....	....	....	....	5.69	+2.23	3.05	0	7	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	66.2	− 0.4	87	19	41	12	33	4.66	−0.94	1.50	0	13	7	12	12	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	....	67.3	.....	88	19	38	13	29	5.15	.....	1.24	0	14	....	....	....	....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	3	64.6	.....	88	19	36	9	43	6.46	.....	1.13	0	17	10	12	9	sw.	Ivan J. Ellsworth.
Monticello	Wayne	....	....	....	....	....	....	....	....	....	6.18	....	1.25	0	13	12	7	12	.....	E. O. Cooper.
Munfordville	Hart	600	9	....	....	....	....	....	....	....	6.18	.....	1.30	0	....	....	....	....	.....	Mrs. M. W. Price.
St. John	Hardin	777	42	66.2	+ 2.1	89	19	38	9	43	6.51	+2.44	2.00	0	14	23	4	4	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	....	....	....	....	....	....	....	5.68	+2.17	1.97	0	11	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	45	64.0	− 0.4	86	19	35	12	37	6.02	+2.22	2.06	0	17	7	0	24	sw.	Miss RuthRatta,
Shepherdsville	Bullitt	500	1	....	....	....	....	....	....	....	5.51	....	1.22	0	11	13	5	13	sw.	A. McLeod.
Smith's Grove	Warren	607	....	69.3	.....	90	19	47	12	30	6.03	.....	1.16	0	19	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	2	64.9	.....	87	8	40	9†	37	6.13	.....	0.87	0	21	....	....	....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	....	....	....	....	....	....	....	5.44	+1.94	1.50	0	15	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	35	66.4	+ 2.7	91	19	35	12	39	7.18	+3.54	2.00	0	15	19	6	6	w.	Miss Nettie B. Simpson.
Woodbnry, Lock 4 ‡	Butler	504	21	....	....	....	....	....	....	....	4.44	+0.81	1.54	0	15	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	7	....	....	....	....	....	....	....	8.27	.....	1.60	0	18	4	13	14	sw.	W. A. Worthington.
Ashland	Boyd	534	21	65.2	+ 0.9	93	4	33	12	44	5.69	+1.68	1.87	0	16	10	9	12	sw.	Lockmaster.
Berea	Madison	1070	35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	....	....	....	....	....	....	....	5.34	+1.40	1.26	0	14	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	20	....	....	....	....	....	....	....	3.00	−0.41	1.50	0	8	....	....	....	.....	P. H. Kehoe.
Falmouth	Pendletou	600	49	....	....	....	....	....	....	....	6.92	+3.39	1.79	0	14	....	....	....	.....	J. V. Oldham.
Farmers	Rowau	668	31	64.6	+ 1.4	89	20	35	13	48	5.50	+1.58	1.70	0	9	12	4	15	e.	Mrs. R. F. Stamper.
Flemingsbnrg	Fleming	870	13	....	....	....	....	....	....	....	4.47	+0.77	1.03	0	10	....	....	....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	....	....	....	....	....	....	....	6.47	+2.97	2.00	0	15	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	....	....	....	....	....	....	....	4.82	+1.61	1.27	0	14	....	....	....	.....	Lockmaster.
Hazard	Perry	869	14	....	....	....	....	....	....	....	5.00	−0.11	1.00	0	12	....	....	....	.....	Chas. O. Hurig.
Heidelberg, Lock 14	Lee	663	3	65.0	.....	90	19	37	13	44	5.18	+1.20	1.03	0	18	5	8	18	sw.	Lockmaster.
Jackson	Breathitt	776	14	....	....	....	....	....	....	....	6.17	.....	1.30	0	11	....	....	....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	....	....	....	....	....	....	....	7.34	+2.57	2.25	0	17	....	....	....	.....	R. J. Howard,
Louisa	Lawrence	584	35	....	....	....	....	....	....	....	4.81	+0.98	0.86	0	14	....	....	....	sw.	Jacob Workman
Maysville, Dam 33	Mason	524	40	65.0	+ 0.5	89	19	33	12	41	5.65	+1.94	1.27	0	15	6	16	9	sw.	Lockmaster.
Middlesboro	Bell	1128	39	66.3	+ 1.6	88	29	43	9†	37	6.44	+2.42	1.20	0	14	12	19	0	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	62.9	− 0.8	88	4†	32	13	43	5.55	+1.29	1.70	0	5	12	14	5	w.	W. R. McKee.
Oneida	Clay	....	1	....	....	....	....	....	....	....	6.47	.....	1.68	0	10	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	....	....	....	....	....	....	....	4.47	+1.02	1.63	0	15	....	....	....	.....	Lockmaster.
Paintsville	Johnson	620	4	....	....	....	....	....	....	....	5.84	.....	0.80	0	17	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	2	66.8	.....	93	19	38	13	47	5.66	+2.12	1.30	0	15	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	4	65.6	.....	92	19	37	13	39	4.47	....	1.33	0	15	5	12	14	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	*65.2	+ 0.4	92[a]	28	35[a]	13	45[a]	6.41	+1.27	1.10	0	12	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	5.47	+1.55	0.90	0	14	....	....	....	.....	Lockmaster.
Richmond	Madison	926	41	66.2	+ 0.7	88	19	40	12	35	4.55	+0.51	1.00	0	15	15	0	16	.....	I. W. Crooke.
Valley View, Lock 9	Madison	571	25	....	....	....	....	....	....	....	7.51	+3.50	2.63	0	14	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	....	....	....	....	....	....	....	7.76	+3.73	2.20	0	17	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	41	66.1	+ 0.2	93	19	41	9	40	6.28	+2.19	1.69	0	20	12	11	8	.....	Wadely West,
Willow, Lock 13	Lee	646	18	....	....	....	....	....	....	....	5.42	+1.62	1.00	0	14	....	....	....	.....	Lockmaster.
Winchester	Clark	964	....	65.0	.....	86	19	37	12	35	5.11	.....	1.76	0	16	....	....	....	.....	Airway Station.
State averages and extremes		....	....	65.7	+ 0.3	93	19	32	13	48	5.73	+1.71	2.87	0	14	11	10	10	.....	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbnry are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.
* * Precipitation by U. S. Engineers.

Daily Precipitation for May, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																	
Beaver Dam	G				.29		.09	.28				.07	.08	.52		T.		.20	.35		.07	1.48	.10	.61	.17				.65	.74	.03		5.73
Birmingham	T.				.46				.11			.45		.41	.25				.80			.48	.45	.61						.89		.27	5 18
Calhoun	G				.14		.50	T.	T.				.25	T.		T.		.20	.57		T	1.20	.75	1.50			T	.28	2.85				7.74
Earlington ‖	G				.22			.18	.05			.03	.24	.16	.01			.02	.45			.11	.63	.49	1.79				.45	.47				5.29
Fords Ferry Dam 60‖	O				.15			.47	T	T.		.03	.82	.04	.01			.09	.28		T.	.35	.11	.47	.39			.01	.05	.44	T.			3.25
Greenville	G				.35		.40				.10	.15	.13	.50		T.		.20	.40		.20	.33	.05	.80	.35				.18	.95				5.09
Henderson	O				.16		.25		T.			T.	.10	.04		.07		.34	.12		T.	.64	.71	.55				T.	.09	1.82				4.89
Hopkinsville‡	C				.15			.65	.06			.30	.15						.39		1.10		.45	1.17	.60				.12	1.06				6.20
Lovelaceville	M					.50					.70	.05				.87				.31			.72						.25					2.90
Mayfield	M				.23	.01		T.				.46	.22			T.		.67	.60		.40	.51	.03	.21	.75					.80				4.35
Murray	T.				.97						.15	.25	.35					.61			.73	.80	.59					.80	.35					4 80
Owensboro ‖	O				.22			.05	.03		T.			.11				.22	.48			.71	1.10	.97	.44		.04	.40	1.56	2.19				8.46
Owensboro, Dam 46 ‡	O				.28			.05	.01			T.		.18	.02			.20	.48	T.	.10	.19	.49	.62	.23					.10	.02				7.51
Paducah‖	O				.11		.06					.14	.50	.06	.02			.01	.48	T.	.10	.19	.49	.62	.23										3.13
Princeton	G			.25		.18	T.	.01		T.	.30	.17	.02		.02			.72			.80	.05	.53	1.50			T.	.07	.73	.01				5.36
Ramsey, Lock No. 2 ‖	G				.14			.07	.02			T.	.10	.15	.06			.05	.58			.26	1.12	.58	1.80				.31	2.12	.28			7.74
Russellville‖	G					.31		.39	.10				.32								1.20		.04	.61	1.00									2.90
Uniontown, Dam 49 ‡	O				.10			.12				.01	.07	.06	.02			.07	.23		T.	.05	1.24	.95	.40				.21	.53	.05			4.11
Central Division																																	
Addison, Dam 45 ‖	O				.46			T	.02				.22	.10		.06	.67	T.	.07	1.70	.48	1.55	1.02					.31	1.90				8.46
Anchorage	O				.05			.18			T.		.04	.59		.10	.55	.01	.57	.43	T.	1.63	.06						.61	.25				5.02
Bowling Green ‖	G				.30			.25	.03			.10	.10	.48	.02		T.		.40			.20	.07	.08	1.16				.05	.90	.20			4.84
Brownsville, Lock No. 6‖	G				.36			.20	.34			.11	.04	.51	.12		T.		.48			.57	.80	T	1.45					2.42	.15			7.03
Burnside‖	C	.08			.18	.08		.37	.08			.20	.04	.44	.12				.37	.08	.21	.49	.86	.06	1.04						1.71	1.12	.49	6.48
Carrollton ‖ Lock No. 1	K			.02					.43				.63	.22	.02				.78			1.34	.86	.26	.94				.14			.07		2.55
Cold Spring, Dam 36‡	O	T.			.02				T.	.02	.03	.06	.38	.22	.04				.48	.03	.23	.09	.53	.03	.90				.08	2.15	.29	.18		5.10
Danville‖	K	.03			.23			.04	.29	T.		.10	1.13	.24		.01		.01	.54	.01	.20	1.78	.26	.18	1.36			T.	.06	.45	.99			7.11
Dix Dam, Bargin	K			.16				.58			.25		1.09	.28		.40		.12	.08	1.42	.84	.40	2.30				.03	.02	.52	.05			7.97
Eubank	C	.20			.10				.15			.30		.84	.12				.50			.19	.53	.72							2.05			5.50
Frankfort‖, Lock No. 4	K				.08			T.	.06		T.		.65	.14	.03			.32	.08	.04	.86	.38	.89	1.08						T.	T.		4.61
Gest, Lock No. 3	K				.11				.35		.03	T.	.37	.28	.04			.30	T.			.50	.37	.33	2.05							.04		5.27
Grant, Dam 33‡	O				T.					T.	T.		.45	.11	T.			.58	.07	.18	.49	.32	.05						.23	T.	.07		2.55
Greensburg‖	G	.12			.51			.08	.22	T.		.15		.08		T.		.52				.26	.25	1.32	.39						.56	T.		5.10
High Bridge, Lock No. 7‡	K	.02			.25				.83		.04	11		.86	.35	T.		.40	.07		.47	.35	.66	1.64				.03	T.		46	.03	6.57
Irvington	O				.03		T.	T.			.09		.04	.49		T.	.27	.22	.21	.02	1.22	T.	2.87	.16			T.	.06	.45	.99			7.11
Lancaster	K			.05			.20	.45			.04		.64	.13				1.18	.02		1.20	.12	.07	1.55			.02	.02		1.02	.14	.04		6.91
Leitchfield	G				.07		.02	.80	T.		.04	.01		.48		.02	.07	.43		T.	.62	.27	.75	.13				.02	2.27				5.53
Lexington ***	K				.06		T	.63		.01	T.		.40	.45	.02	.01	.01	.43	T.	.81	.47	.09	1.10	.08			.39	.09	.09	.11	T.		4.75
Little Hickman, Lock No. 8 ‡	K								.52		T.	.38		.86	.20				.50	.06	.30	1.27	.28	.10	1.85				.68	.50	.05		7.55
Lockport, Lock No. 2 ‡	K				T.				.15									.90	.12		.62		.62	3.05					.23				5.09
Louisville***	O				.02			T.			.01		.21	.16				.50	.29	T.	.79	.44	.10	1.46	.04			.20	.45				4.66
Do. Bowman Field	O				.03		T.	T.	T		T.			.51	.01			.07	.45	T.	.25	.45	1.24	.28	.86			.28	.43	.02	.25		5.15
Mammoth Cave	G	T.			.40		.17	.08	T.		.15	.05	.14	.71	.01	T.		.11	.45	T.	.19	1.13	.18	1.07	.14			.44	1.03				6.46
Monticello ‖	C	1.10	.80			.28			.90				.29				.68				.14		.13			.14	.25		1.25	.20	.12		6.18
Munfordville	G																																
St. John ‖	S				.10			T.	.12				.75	.18		T.		.60		.10	.92	.60	.05	.82				.12	2.00	.10	.05		6.51
Salvisa, Lock No 6 ‖	K				.07				.30				.60	.11				.75	.12		1.97	.30	.21	1.24					T.	.12			5.68
Shelbyville	S	.02			.10				.22	.01			.59	.22	.01			.53	.06	.08	1.03	.48	.30	2.06					.26	.04	.01		6.02
Shepherdsville	S						.01	.24					.96			.07			.72	.73	.47	.29	1.22	.08					.72				5.51
Smith's Grove	G					.13	.19	.10	.19	.10		.02	.16	.81	.05		.06	.41	T.	.06	.86	.22	1.03	1.16				.12	.78	.08			6.03
Stearns	K	.62			.14	.02		.51	.64	.02		.15	.09	.81	.18		T.	.11	.13	.45	.70	.05	.08	.64				.02	.03	.66	.87		6.42
Tyrone, Lock No. 5‡	K				.09			T.	.48		.04	.08		.70	.85			.25	.24	T.	.82	.37	.34	1.50					.03	.08	.12		5.44
Williamstown ‖	L				.07				1.10			.05		.40	.40	.05		1.00	.05	.12	.81	.50	.10	2.06				.48			.05		7.18
Woodbury, Lock No. 4‡	G				.12			.23	.03				.06	.33	.09		.05	.32			.20	.18	.09	1.09				.03	1.64	.08	T.		4.44
Eastern Division																																	
Annville	C				.28			.15	.13	.05	.02	.12		.53	.15	.03		.92	.02	.11	1.60	.19	.82	1.22						1.22	.71		8.27
Ashland ‡	O	.30							.38	.04	.02			.54	.62	.12		.16	.46	.05	1.87	.21		.97	.01				.12	.32				5.69
Berea	K																																
College Hill, Lock No. 11‖	K	.04						25	.33		.23			.57	.15			.30	.45		.55	.14	.07	.92				.08	1.26	T.			5.34
Cumberland	C																																
Cynthiana ‡	L								.05					.78	.17	T.		.12			.11	.17	T.	1.50					T.	T.	.10		3.00
Falmouth‖	L				.02				.40	T.		T.		.40	.68	.06		1.20	T.	.87	.67	.48	.06	1.79		T.		.38	.35	.66			6.92
Farmers ‡	L								.05					.74		.49		.48			.54	.60	.05	1.70					.85				5.50
Flemingsburg	L								.60					.54	.50			.84			.86	.16		1.03	.14				.26		.04		4.47
Ford, Lock No. 10 ‖	K				.08			.11	.79	T	.08	.33		.62	.15	T		.31	.26	T.	1.43	.14	.05	2.00				T.	.08	.09	T.		6.47
Greenup, Dam 30‡	O	.05				.04			.06	.02	T.			.45	.48	.10		.55	.40	.03	.57	.26	T.	1.27						.54			4.82
Hazard ‡	K	.25						.42	.75			.25		1.00	.25			.42		.46			.80	.10				.10		.70			5.00
Heidelberg, Lock No. 14‡	K	.13			.03			.08	.41	.02	T.	.03		.49	.22	.03		.45	.06		1.03	.01	.05	.78					.04	.56	.81		5.18
Jackson ‖	K							T.	.83	T.		T.	.50	.60		.15		.20	.35	.27	1.30		T.	1.12						.75	.10		6.17
Jenkins‡	B	.08						.09	.39			.32		.50	.56	.14		.04	.26		.32	.40	.48	.74	.08				.60	2.25	.10		7.34
Louisa‡	B	.21							.74	.05			.86		.25	.05		.70	.18	.20	.25	.12		.52					.21	.50				4.84
Maysville‡, Dam 33	O	.07						T.	.08	T.	.04			.60	.85	.02		.85	.37	.39	1.00	.42		1.27					.02	.11	.06		5.65
Middlesboro	C				.13				1.05		.10		.15	1.20				.44		.80		.90	.28	.87		.06		.14	.18	.74				7.44
Mount Sterling	L						T.	T.		T.	T.			1.70	T.			.70		T.	.80	T.	1.50	T.			1.85	T.	T.	T.			5.55
Oneida ‡	K								.86			.44		.69				.82		.40	.50		.77	.50				.42	1.07				6.47
Onesuta Dam 35‡	O	T							.33	T.	.02	.06		.30	.32	T.		.54	T.	.07	.06	.55	.03	1.68				.26	.04	.14	.07		4.47
Paintsville ‡	B				.09			.09	.44	.06	.02	.50		.80	.25	.07		.48	.37		.71	.26		.40	.03	.47			.08	.71				5.84
Pikeville	B							.81	.02		.18		T.	.92	.15	.06		.68		1.30	.03	.03	.03	.52		T.		.03	.04	.91				5.66
Pippapass	K			T.				.55	.30	.02	.17		T.	1.33	.08	.12		.32		.82	T.	.16	.02	.61					.16	.04	.02			4.47
Quicksand‡	K					.21			.85			.26		.61		.23		.06	.55		1.10		.60	.52					.52		.30			6.41
Ravenna, Lock No. 12‡	K	.07			T	T		.58	.43	T.	.05	.16		.46	T.	T		.77	.09	T.	.80	.15	.11	.90			T.		T.	.58	.37			5.47
Richmond‡	K				.10			.30	.40		.05	.10		.75	.10			.50		.08	.10	.30	.10	1.00				.10		.40				4.35
Valley View, Lock No. 9‡	K				.04			.05	.58			.32		.82	.80			.52	.07		1.22	.14	.15	2.63					.08	.01				7.61
Vanceburg, Dam No. 32 ‡	O	.06							.10	.03	.05			.56	.40	.09		.62	.41	.11	.82	.40		1.19	.04				2.29	.27	.12			7.56
Williamsburg‡	C	.39			.13			.46	.37		.19	.12	.04	.44	.10			.06	.08	.05	.45	.10	.05	.75	.02			.14	1.69	.65			6.28
Willow, Lock No. 13‡	K	.40				.04		.21	.34			.21		.48	.14			.54	.03		.82	T.	.08	.95			.18				1.00			5.42
Winchester	K				.08			.94	.02		.07		T	.99	.01		T.	.51	.03	.55	.65	.05	1.26	.86			T.	.01	.03	.05				6.11

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

ERRATA.—Bowling Green, Earlington, Greensburg, Hopkinsville, Owensboro, Richmond, Shelbyville, St. John, Williamstown, should be marked thus ‖ in the months April to September, within the period April, 1931 to April, 1938, and Bowling Green and Hopkinsville for October also within the same period.

Daily Temperatures for May, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	80	88	86	84	76	82	74	75	71	72	72	69	60	66	72	72	78	84	89	85	86	78	80	72	80	82	84	82	76	84	78	78.0
	Minimum	48	48	60	60	64	48	55	54	40	44	50	42	40	54	50	42	67	62	68	70	63	62	62	54	48	54	60	60	60	64	60	65.1
Calhoun	Maximum	75	87	87	84	77	80	74	72	72	73	74	72	63	69	74	74	78	85	89	86	88	80	81	80	81	83	86	83	80	83	82	79.2
	Minimum	49	49	56	68	52	48	55	54	40	40	48	50	40	54	51	44	57	62	66	69	62	69	62	54	48	54	60	62	59	63	63	65.1
Earlington	Maximum	76	86	86	84	82	80	82	74	72	73	73	68	60	69	73	74	78	83	89	85	87	81	78	74	82	85	85	85	85	85	86	79.3
	Minimum	48	54	62	62	63	49	65	63	40	44	51	46	43	55	53	46	59	62	66	71	66	63	65	64	46	52	60	61	60	61	62	66.3
Greenville	Maximum	76	85	83	82	79	79	73	74	71	70	73	66	58	69	73	72	77	81	87	82	86	80	80	70	82	81	85	83	77	81	82	77.3
	Minimum	47	60	57	66	59	46	53	53	39	42	46	43	41	53	60	43	60	69	65	65	62	61	61	54	45	51	56	60	57	68	60	53.2
Henderson	Maximum	74	82	77	80	79	81	73	64	65	71	72	68	63	66	68	73	72	80	83	85	80	77	73	71	80	81	77	81	79	84	81	75.2
	Minimum	43	54	62	62	63	50	56	58	41	43	49	39	39	63	51	44	66	60	69	68	64	60	63	54	46	52	59	62	59	59	63	54.7
Hopkinsville	Maximum	78	86	85	83	75	81	74	72	72	71	75	68	66	69	75	75	77	81	89	81	88	80	82	74	78	80	85	86	79	82	81	78.3
	Minimum	52	58	59	59	63	49	59	61	39	44	46	48	47	55	52	47	58	61	66	67	65	61	63	54	50	54	60	62	59	61	63	55.9
Lovelaceville	Maximum	77	85	84	82	79	80	77	72	71	76	66	66	68	74	71	76	82	86	85	85	78	79	71	77	81	85	84	82	82	84	83	77.6
	Minimum	52	57	69	60	50	58	55	38	41	45	48	48	53	61	61	58	61	66	60	70	64	60	63	52	45	54	60	63	61	64	60	61	65.7
Mayfield	Maximum	75	80	78	84	80	78	80	78	75	76	78	60	59	71	77	78	65	80	85	82	85	77	75	75	76	75	76	80	81	83	81	76.5
	Minimum	65	60	61	63	60	49	58	51	41	44	49	49	48	54	50	63	59	60	66	66	68	64	63	62	60	56	63	61	62	60	62	66.7
Murray	Maximum	78	87	85	85	..	..	..	..	..	..	..	..	..	..	50	53	64	56	58	78	75	70	66	68	68	50	57	62	67	70	68	64	.....
	Minimum	68	60	62	64	..	..	..	..	..	..	..	..	..	..	50	53	54	56	58	78	75	70	66	68	64	63	62	60	56	63	61	62	60	62	66.7	.....
Owensboro	Maximum	76	85	84	84	80	78	78	72	71	71	70	64	65	70	71	74	75	82	87	84	82	78	78	74	78	80	82	82	78	81	80	77.2
	Minimum	47	50	57	57	60	47	50	54	39	42	49	43	42	52	62	43	54	69	65	67	61	62	60	54	48	55	59	61	57	58	62	63.4
Paducah	Maximum	78	86	83	83	80	79	79	73	73	73	76	58	56	71	76	74	76	81	87	87	87	79	81	79	79	82	84	85	83	84	87	78.7
	Minimum	52	68	64	64	61	61	59	59	42	43	49	49	48	54	52	51	60	62	70	66	70	65	65	63	46	55	62	63	63	64	61	57.5
Princeton	Maximum	72	87	86	83	76	80	76	68	72	72	71	67	70	76	71	76	84	90	86	86	79	79	73	81	85	85	85	87	80	84	82	78.0
	Minimum	47	57	60	62	62	50	69	55	41	45	50	61	46	56	63	51	60	61	66	60	70	64	63	55	49	55	61	63	62	64	64	67.1
Russellville§§	Maximum	74	86	85	83	78	77	78	76	70	68	73	60	60	68	72	74	..	..	89	78	87	84	82	70	78	81	85	83	70	80	78	b72.0
	Minimum	48	51	60	70	68	47	56	59	40	43	46	44	46	50	61	46	67	..	..	62	65	69	63	56	47	56	59	63	58	61	62	b51.1
Central Division.																																	
Anchorage	Maximum	73	83	85	84	79	74	82	72	68	68	68	62	65	64	68	72	76	79	78	82	82	74	75	70	77	83	85	80	74	78	75	75.3
	Minimum	57	48	57	58	60	47	50	55	39	48	51	38	34	50	45	40	54	61	62	64	60	59	62	55	47	57	60	61	68	58	68	53.0
Bowling Green	Maximum	79	88	88	86	81	80	81	78	75	68	73	63	65	69	75	72	77	86	93	88	83	82	85	75	82	85	87	82	75	75	79	79.0
	Minimum	50	53	60	61	64	53	52	53	43	48	51	42	46	48	55	50	48	63	68	68	66	64	59	51	51	58	60	64	64	69	64	56.0
Danville	Maximum	78	85	88	85	83	80	85	83	69	68	70	61	67	67	69	71	82	82	89	84	86	75	83	70	78	82	85	87	82	76	74	77.6
	Minimum	52	58	62	62	63	48	52	54	42	43	48	51	46	55	50	48	55	62	66	61	59	56	60	55	44	54	58	58	58	60	59	51.7
Dix Dam	Maximum	75	87	88	87	84	81	86	83	70	69	68	66	67	73	78	82	81	80	90	85	86	80	80	82	71	78	84	85	84	78	73	73	78.9
	Minimum	42	44	60	66	62	50	52	60	42	46	54	39	36	54	60	56	58	63	65	65	62	58	60	58	47	54	58	60	61	62	62	64.7
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	41	41	53	55	61	53	51	43	36	42	37	38	39	52	45	37	55	59	65	66	64	56	61	49	61	45	55	57	58	64	57	60.2
Frankfort	Maximum	73	88	87	85	82	80	85	83	70	71	70	68	66	67	70	75	79	81	90	85	86	75	83	72	80	84	80	83	79	75	76	78.1
	Minimum	39	43	55	65	61	47	49	57	40	48	52	36	34	52	47	46	53	62	68	69	62	59	62	57	46	54	57	59	59	59	63	53.2
Greensburg	Maximum	74	89	88	86	82	81	86	81	72	71	72	65	64	68	71	72	83	88	90	85	87	78	85	74	82	84	86	83	74	79	78	79.3
	Minimum	41	42	53	53	61	44	49	57	36	40	47	38	36	53	47	30	55	60	65	64	60	54	60	57	44	52	54	58	58	61	60	51.7
Irvington	Maximum	48	84	85	84	80	76	81	76	70	69	68	63	68	66	69	73	78	82	87	84	83	77	77	69	78	80	83	82	76	74	75	76.4
	Minimum	46	51	62	62	66	51	57	54	43	48	55	41	40	54	50	45	56	62	71	70	63	61	63	58	50	55	62	64	61	61	59	56.1
Leitchfield	Maximum	75	86	86	83	80	78	80	78	71	70	71	64	64	66	70	75	78	82	88	84	85	78	80	70	77	82	84	82	74	80	66	77.8
	Minimum	45	48	60	61	64	50	55	54	40	45	52	42	40	54	49	45	53	57	68	70	62	60	63	57	47	56	61	62	59	60	62	54.9
Lexington	Maximum	74	86	87	88	82	78	88	82	68	69	69	62	66	66	65	67	73	80	79	89	84	85	76	82	70	79	83	86	85	78	74	78	77.8
	Minimum	40	48	60	60	50	49	51	46	41	44	52	36	37	49	47	43	53	61	67	62	58	57	61	50	46	56	61	62	61	61	59	52.5
Louisville	Maximum	74	84	85	85	77	76	80	76	69	69	63	61	64	64	70	74	75	81	87	84	83	75	76	68	78	82	84	82	73	76	77	75.9
	Minimum	45	51	67	64	59	54	57	60	46	51	49	41	42	51	50	53	60	62	72	60	60	62	62	55	62	59	64	64	62	64	65	66.6
Do. Bowman Field	Maximum	76	86	85	85	79	77	82	75	68	69	65	63	68	64	69	72	76	82	88	85	79	80	67	78	84	84	82	78	80	80	84	77.1
	Minimum	42	47	64	63	65	67	71	61	42	49	54	40	38	53	50	45	58	62	71	71	62	61	64	59	49	57	63	64	63	62	65	57.6
Mammoth Cave	Maximum	72	86	86	85	82	80	83	79	83	71	71	65	61	67	75	74	79	82	88	82	86	80	82	71	79	81	85	79	68	79	77	77.9
	Minimum	41	43	65	54	62	43	47	64	36	41	47	38	38	53	47	38	61	59	67	68	61	54	59	57	42	51	65	58	57	50	59	51.2
St. John	Maximum	74	88	87	86	85	80	81	80	72	72	76	64	66	68	72	77	79	82	89	88	85	79	81	70	77	83	88	84	71	74	79	78.7
	Minimum	45	45	56	57	64	47	63	58	38	42	50	39	40	53	47	42	56	60	68	69	61	58	62	58	48	54	60	60	60	58	61	53.8
Shelbyville	Maximum	72	84	82	80	80	77	82	79	68	67	64	61	64	62	66	73	75	80	88	82	82	76	77	68	76	81	83	82	75	76	73	75.3
	Minimum	41	47	59	57	62	48	50	55	39	44	51	35	37	60	46	43	53	60	68	66	58	57	62	56	46	54	58	60	58	58	60	52.8
Smith's Grove	Maximum	79	86	85	85	81	83	87	79	70	70	73	65	66	70	72	74	79	84	90	82	88	81	82	72	81	84	86	83	76	79	78	79.0
	Minimum	55	56	64	67	66	56	68	56	48	53	62	47	47	57	54	53	63	64	71	69	62	63	67	68	55	62	67	65	61	67	65	59.6
Stearns	Maximum	76	84	87	85	80	78	81	78	67	64	66	64	62	66	66	72	78	78	86	86	86	82	82	70	76	78	80	76	74	72	72	76.0
	Minimum	46	47	60	57	61	53	51	60	40	48	44	40	46	64	48	42	66	60	65	64	54	58	62	58	48	56	56	58	58	60	58	53.8
Williamstown	Maximum	77	87	90	90	85	81	86	82	69	72	67	65	69	67	68	73	77	82	91	86	87	78	80	73	87	86	89	86	78	79	79	79.4
	Minimum	41	48	62	60	62	49	52	60	40	45	50	35	38	49	45	43	52	60	68	68	60	57	63	56	45	55	58	60	59	59	56	63.4
Eastern Division.																																	
Ashland	Maximum	75	86	89	93	87	79	85	76	72	71	65	60	66	69	67	74	76	74	91	83	91	82	92	81	74	78	81	85	79	73	78	78.4
	Minimum	39	43	45	56	59	49	49	57	42	46	50	38	34	51	47	46	45	61	65	63	62	60	62	59	48	57	55	56	59	63	54	52.1
Berea	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	75	85	88	88	84	81	86	86	74	69	68	63	77	67	68	71	80	79	87	89	88	74	84	71	78	88	84	80	81	72	80	79.0
	Minimum	43	37	51	52	53	43	43	57	51	43	48	39	35	48	45	38	41	58	60	60	60	54	59	55	40	61	50	52	58	59	72	50.2
Heidelberg	Maximum	77	87	89	88	82	79	85	82	70	68	68	66	68	69	72	80	77	90	82	87	77	83	71	77	84	79	83	84	79	79	76	77.7
	Minimum	43	43	54	55	56	48	48	62	41	43	46	38	37	53	50	42	51	60	62	63	63	63	63	63	63	61	56	54	56	56	61	57	62.4
Maysville	Maximum	78	84	88	88	85	79	86	85	81	71	69	65	63	68	67	65	70	76	80	89	86	86	75	84	69	77	81	87	86	78	76	78	77.6
	Minimum	37	43	55	56	61	48	49	60	42	46	51	33	34	51	48	45	46	61	65	66	68	58	62	69	43	54	56	59	57	63	56	52.5
Middlesboro	Maximum	79	83	86	87	81	82	88	82	78	67	70	67	63	68	67	74	83	78	89	82	83	82	83	79	74	78	81	80	88	74	71	78.0
	Minimum	51	46	58	57	62	52	47	62	43	48	45	47	43	56	51	43	54	61	63	63	62	60	62	61	50	58	55	57	56	62	67	54.6
Mount Sterling	Maximum	72	87	85	88	80	82	80	82	70	67	55	61	62	60	65	70	78	78	88	86	87	70	84	75	80	81	85	84	82	84	80	77.0
	Minimum	38	42	45	45	47	45	46	42	42	45	50	33	32	46	42	45	48	60	65	68	63	56	60	55	45	47	53	57	56	57	52	48.8
Pikeville	Maximum	79	90	92	92	84	81	89	80	72	67	68	65	71	70	67	73	83	76	88	90	80	80	84	74	79	80	84	85	80	71	82	79.3
	Minimum	46	43	63	57	59	56	60	60	45	50	49	42	38	54	53	45	47	61	62	64	63	61	68	63	59	61	57	56	60	58	55	54.2
Pippapass	Maximum	80	81	81	84	86	83	80	81	78	69	69	67	73	70	75	83	78	92	84	90	90	74	78	77	79	81	87	86	82	74	79	79.0
	Minimum	45	42	61	66	55	51	48	68	41	41	46	40	37	53	52	43	47	59	62	63	62	58	62	60	48	59	52	54	58	61	62	52.2
Quicksand	Maximum	78	87	88	89	90	81	88	80	74	65	66	64	69	67	67	72	82	77	88	80	86	79	91	88	75	80	..	92	90	88	88	c79.8
	Minimum	42	42	53	54	53	48	46	56	39	43	47	37	35	51	49	42	47	59	61	60	61	56	60	52	44	56	..	56	55	59	64	c50.6
Richmond	Maximum	76	85	85	87	82	77	85	78	67	68	60	65	67	65	67	70	78	77	88	80	85	76	80	70	75	78	82	83	78	72	75	76.2
	Minimum	45	50	65	64	53	55	63	42	46	53	40	42	53	50	47	68	62	67	70	60	66	65	68	56	60	70	75	78	80	53	63	62	66.1
Williamsburg	Maximum	79	87	90	88	78	83	87	78	77	66	71	67	66	66	67	72	80	81	93	82	84	75	80	68	75	80	82	82	80	77	71	74	78.5
	Minimum	47	49	61	64	61	54	53	51	46	52	37	39	64	47	45	54	61	68	68	69	60	53	64	56	46	56	59	60	60	61	58	53.7
Winchester	Maximum	72	84	81	84	81	77	84	78	67	66	66	60	64	65	65	70	77	77	86	82	84	76	80	68	75	80	82	80	75	71	75	75.3
	Minimum	43	49	61	60	64	50	57	62	40	44	52	37	39	64	47	45	54	61	68	68	60	58	64	56	46	56	59	60	60	61	58	54.8

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*,** etc. indicate respectively 1, 2, 3 etc. days missing from record.

Errata.—February, page 6: Mean temperature at Murray should be 46.9 and at Farmers, 43.1. Page 8: Mean maximum at Murry should be 53.9 and at Farmers, 55.0.

W B O Louisville. 6-26-38—1100

Nat. Hist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., JUNE, 1938 No. 6

GENERAL SUMMARY.

In most of the State the rainfall was ample for the needs of vegetation. A few extreme northern counties remained dry until the general rains of the last week. In this district corn planting and tobacco setting were delayed by the dry weather. On the other hand, the Green River Valley and some adjoining districts received so much rain from the middle of the month onward that cultivation was seriously delayed and hillsides were badly damaged by erosion. In other parts of the State weather conditions permitted the necessary care of crops. The frequent showers produced a long transplanting season which, together with the moderate temperature, favored setting out and starting the tobacco crop. Except for some cutworm damage, perfect stands were obtained without difficulty. The same type of weather, however, interfered seriously with making alfalfa and clover hay. These crops were generally heavy and not easy to cure properly, even with normal sunshine and temperature. In most sections the weather was entirely suitable for domestic and market gardens, which have seldom shown better progress and productiveness. On account of its excellent start, corn on the warmer soils made good progress despite the cool weather. Growth was somewhat delayed on the colder types of soils and wet bottoms in the western counties. Some early corn was tasseling at the end. Planting continued in some backward localities, mainly north and west, until the third week.

Wheat ripened slowly and evenly. Harvest began in the second week and moved slowly north and east on account of the rains. Threshing began before the month closed. Barley harvest passed through the northern counties in the first week. Pastures improved in the first half and remained luxuriant until the end. In the cotton district lighter rainfall, with temperatures and sunshine near normal, favored seasonal progress. The crop was near the blooming stage at the end of the month. Although cool weather predominated, all crops maintained their advanced stage in comparison with the seasonal development.

TEMPERATURE.

Daily means varied in short periods from slightly above to somewhat below normal, but temperatures lower than the seasonal average predominated. In the four-day period of cool weather at the end of the month daily deficiencies ranged from 5° to 11°. The temperature deficiency was mainly chargeable to low maxima, due in part to cloudiness and frequent showers. The range for the State was between 95° on the 4th, 15th and 22d at various stations, and 45° on the 14th at Mammoth Cave.

PRECIPITATION.

Although precipitation averaged near normal, it was very irregularly distributed over the State. Dry areas developed in the extreme western counties, in a section across the State west of the lower Green, and in extreme northern districts, where the months rainfall ranged from 1.5 to 2.5 inches. In several counties around the lower Cumberland and Tennessee, in a north-south belt across the lower Green River Valley, and in a large area that expanded fan shaped from the central counties eastward, amounts ranged from 4.00 to 6.00 inches. In about one-third of the State precipitation was considerably deficient, while two-thirds of its area received from the average to somewhat more than the normal amount. Showers were of daily occurrence but rather local from the 1st to 15th. They were general and heavy in the periods 17-20th and 25-27th. For the State amounts varied between 1.31 inches at Onconta, Campbell County, and 8.59 inches at Pippapass, Knott County. Days with thunderstorms were: 1, 4, 7, 11, 15, 16, 17, 18, 19, 24, 25, 26.

MISCELLANEOUS.

Rivers.—The decline in the Ohio early in the month brought stages down to pool levels, except in the Cairo district, by the 12th. Moderately high water in the Mississippi maintained similar stages in the lower section of the Ohio throughout the month.

Errata.—Page 18: Mean temperature for Princeton should be 67.4, and for Russellville, 65.8. Total precipitation for Shepherdsville, pages 8 and 9 should be 5.50. Page 20; Mean maximum for Princeton should be 77.6 and mean maximum and minimum for Russellville, 76.9 and 54.6.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.30	30.29	13	29.77	25	7.7	30	nw.	15	82	58	59	71
Cincinnati .....Ohio	30.02	30.29	13	29.73	26	6.7	25	nw.	11	81	58	61	70
Evansville..... Ind.	30.01	30.28	13	29.76	25	8.1	36	sw.	10	76	53	54	64
Louisville .....Ky.	30.03	30.30	13	29.77	26	9.3	36	nw.	25	76	55	58	68

COMPARATIVE DATA FOR JUNE.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	70.6	99	38	5.27	..	..	..	..	..
1890	78.4	101	51	4.96	..	..	..	..	..
1891	77.1	97	51	4.48	..	..	..	..	..
1892	75.8	101	48	4.23	..	..	..	..	..
1893	73.3	97	48	4.64	..	..	..	..	..
1894	75.6	102	35	2.69	..	..	..	..	..
1895	75.9	104	47	3.63	0	..	15	10	5
1896	73.5	98	46	4.64	0	10	11	12	7
1897	73.4	101	41	3.61	0	9	14	12	4
1898	76.2	101	45	3.90	0	9	15	12	3
1899	76.1	100	44	2.80	0	8	15	10	5
1900	73.9	100	40	6.14	0	14	8	12	10
1901	75.6	104	42	3.97	0	9	15	9	16
1902	73.4	101	39	4.75	0	11	13	9	8
1903	68.6	96	37	3.61	0	10	14	8	8
1904	73.2	99	48	3.14	0	11	14	10	6
1905	74.8	106	45	4.49	0	10	16	6	8
1906	73.9	99	42	4.53	0	11	14	8	8
1907	70.2	95	41	4.91	0	11	12	9	9
1908	73.4	102	43	4.36	0	7	17	8	5
1909	74.5	99	43	5.03	0	14	10	11	9
1910	70.0	99	36	5.20	0	10	15	8	7
1911	75.2	106	45	4.06	0	10	17	7	6
1912	70.2	95	38	3.48	0	10	13	8	9
1913	75.0	107	38	2.87	0	7	19	6	5
1914	78.3	108	45	2.20	0	5	18	8	4
1915	71.7	95	42	4.79	0	12	12	10	8
1916	70.1	99	45	4.94	0	11	13	10	7
1917	70.9	100	39	4.30	0	10	15	9	6
1918	73.6	104	37	3.63	0	8	16	8	6
1919	76.7	103	51	4.00	0	10	14	10	6
1920	71.9	100	44	3.12	0	7	17	6	7
1921	77.8	100	46	2.90	0	8	14	11	5
1922	75.4	100	44	3.10	0	9	14	10	6
1923	73.8	99	42	4.59	0	9	16	8	6
1924	74.2	99	42	4.39	0	12	13	10	7
1925	77.0	105	48	3.90	0	7	15	8	6
1926	70.9	98	42	3.45	0	8	15	9	6
1927	70.4	98	42	4.13	0	11	14	8	8
1928	69.5	93	45	10.88	0	18	7	10	13
1929	71.7	97	37	4.11	0	9	17	7	6
1930	73.1	104	38	1.76	0	6	19	7	4
1931	75.3	106	39	2.80	0	8	17	8	5
1932	74.8	103	40	4.88	0	11	13	10	7
1933	76.5	105	39	1.57	0	4	21	2	7
1934	77.4	105	50	4.58	0	6	27	2	1
1935	70.6	96	44	7.50	0	14	11	10	9
1936	76.1	110	40	0.81	0	3	21	6	3
1937	74.3	99	46	4.52	0	10	18	6	6
1938	71.8	95	45	3.98	0	11	13	9	8
Period	73.8	110	35	4.13	0	10	14	9	7

49-year averages.

Climatological Data for June, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	...	73.0	− 1.2	90	15	52	14	32	5.27	+2.10	2.33	0	7	18	9	3	s.	Eldred G. Young.
Birmingham	Marshall	....	2	....	....	....	....	....	....	....	3.16	.....	1.14	0	5	....	....	....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	34	70.9	− 4.2	92	15	52	7†	34	3.12	−0.74	1.16	0	6	20	4	6	.....	R. C. Bennett.
Earlington	Hopkins	420	44	73.6	− 2.2	90	23†	52	14†	34	3.02	−0.80	1.20	0	10	17	7	6	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	....	....	....	....	....	....	....	4.58	+0.98	1.41	0	13	....	....	....	.....	Lockmaster.
Greenville	Muhlenburg	519	21	71.2	− 3.3	89	22	49	14	32	5.68	+1.52	1.70	0	10	17	12	1	s.	C. R. Lovell.
Henderson	Henderson	382	16	71.7	.....	90	22	50	14	30	2.31	−1.66	0.45	0	7	11	16	3	e.	Frank Street.
Hopkinsville	Christian	524	42	73.0	− 2.4	90	15†	54	6†	31	2.31	−2.18	0.78	0	10	21	8	1	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	72.4	− 3.1	92	25	50	8	34	1.63	−2.45	0.40	0	7	19	5	6	s.	Blaine Malone.
Mayfield	Calloway	364	29	73.3	− 1.7	93	25	55	8†	28	3.19	−0.61	0.96	0	10	15	11	4	s.	Mrs. Joe Payne.
Murray	Graves	412	12	74.0	.....	95	4	55	29	36	5.13	+0.37	1.00	0	10	7	13	10	s.	Pat W. Wear.
Owensboro	Daviess	420	41	72.0	− 2.1	89	16†	53	8†	28	6.40	+2.49	2.25	0	10	13	2	15	so.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	....	....	....	....	....	....	....	5.68	+1.56	1.55	0	9	....	....	....	.....	Lockmaster.
Paducah **	McCracken	341	18	....	....	....	....	....	....	....	1.64	−2.88	0.40	0	10	....	....	....	.....	Joe Lagore.
Princeton	Caldwell	529	31	74.0	− 1.3	91	25	56	14	31	4.46	+0.86	1.28	0	13	9	16	5	s.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	21	....	....	....	....	....	....	....	3.01	−0.60	1.14	0	8	....	....	....	.....	Lockmaster.
Russellville	Logan	590	25	71.8	− 2.8	90	23	50	14	29	4.25	+0.57	1.60	0	10	15	5	10	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	....	....	....	....	....	....	....	1.98	−1.75	0.79	0	11	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	....	....	....	....	....	....	....	3.69	−0.21	1.24	0	12	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	38	70.7	− 1.4	90	24†	50	3†	34	3.60	−0.07	2.11	0	7	15	7	8	sw	C. E. Barret.
Bowling Green	Warren	500	42	74.2	− 1.8	95	15	55	14	30	2.72	−1.34	0.78	0	12	16	8	6	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	21	....	....	....	....	....	....	....	4.31	+0.07	1.70	0	10	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	47	....	....	....	....	....	....	....	4.54	+0 35	1.74	0	11	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	....	....	....	....	....	....	....	2.81	−1.17	1.04	0	11	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	....	....	....	....	....	....	....	1.80	−2.27	0.59	0	11	....	....	....	.....	Lockmaster.
Danville	Boyle	955	14	70.2	.....	90	11	49	6	36	3.74	−0.17	0.90	0	15	15	5	10	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	72.0	− 1.9	90	11†	51	14†	33	3.71	−0.63	1.16	.....	11	11	14	5	s.	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	....	....	....	....	....	....	....	4.10	−0.15	1.23	0	7	9	9	12	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	72.5	− 1.2	95	15†	50	3†	41	3.43	−0.68	1.06	0	12	12	12	6	sw.	Lockmaster.
Gest, Lock 3	Henry	490	28	....	....	....	....	....	....	....	2.68	−1.33	0.54	0	11	....	....	....	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	....	....	....	....	....	....	....	1.68	−1.87	0.45	0	11	....	....	....	.....	Lockmaster.
Greensburg	Green	581	45	71.4	− 1.8	93	15	48	6	34	5.10	+0.67	1.37	0	11	2	3	25	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	644	36	....	....	....	....	....	....	....	3.14	−0.90	0.96	0	11	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	40	72.2	− 1.8	87	15†	55	8†	27	3.69	−0.32	1.26	0	7	13	8	9	sw.	W. J. Piggot.
Lancaster	Garrard	1032	12	....	....	....	....	....	....	....	3.82	−1.39	1.24	0	12	16	8	6	.....	Walter Killion.
Leitchfield	Grayson	635	42	71.8	− 1.5	91	24	53	8	29	3.68	−0.41	1.30	0	9	10	13	4	sw.	H. H. Willis.
Lexington	Fayette	989	54	73.2	+ 1.0	91	22	51	14	34	3.06	−0.99	0.79	0	10	....	....	....	.....	U. S. Weather Bureau.
Littlefickman, Lock 8¶	Jessamine	560	28	....	....	....	....	....	....	....	5.28	+0.94	1.74	0	9	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	....	....	....	....	....	....	....	3.21	−1.17	0.68	0	9	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	72.6	− 2.1	89	22	57	28	25	2.23	−1.59	0.66	0	12	8	13	9	n.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	....	72.2	.....	90	22	54	29	31	3.20	.....	1.63	0	12	....	....	....	n.	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	3	70.2	.....	89	11†	45	14	38	3 63	.....	1.15	0	11	18	4	8	sw.	Ivan J. Ellsworth.
Monticello	Wayne	....	....	....	....	....	....	....	....	....	4.91	.....	1.09	0	10	8	14	8	.....	E. O. Cooper.
Munfordville	Hart	600	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Mrs. M. W. Price.
St. John	Hardin	777	42	71.6	− 0.9	91	16	51	4	33	4.83	+0.57	1.38	0	10	17	5	8	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	....	....	....	....	....	....	....	2.53	−1.89	0.50	0	10	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	45	70.0	− 3.3	89	15	51	28	34	2.75	−1.26	0.56	0	12	12	0	18	nw	Miss Ruth Hatta.
Shepherdsville	Bullitt	500	1	....	....	....	....	....	....	....	3.34	.....	1.00	0	7	....	....	....	.....	A. McLeod.
Smith's Grove	Warren	607	....	72.2	.....	90	11†	50	6	36	3.45	.....	1.18	0	10	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	2	69.6	.....	86	6†	50	4	34	3.76	.....	1.47	0	15	....	....	....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	....	....	....	....	....	....	....	2.43	−2.14	0.78	0	12	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	35	73.2	+ 1.0	95	22	52	8	35	1.74	−1.89	0.50	0	6	16	4	10	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	21	....	....	....	....	....	....	....	3.36	−1.04	0.61	0	18	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	7	.....	.....	.....	.....	.....	.....	.....	4.14	.....	0.88	0	16	8	12	10	sw.	W. A. Worthington.
Ashland	Boyd	534	21	71.2	− 2.1	90	11	51	4	34	5.65	+1.43	1.98	0	11	12	10	8	ne.	Lockmaster.
Berea	Madison	1070	35	70.4	− 2.5	89	11	51°	29	32°	5.75	+1.25	0.90	0	12	10	12	8	s.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	....	....	....	....	....	....	....	4.24	+0.13	0.75	0	12	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	C. Bertrand Fields.
Cynthiana	Harrison	684	20	....	....	....	....	....	....	....	2.69	−0.67	1.17	0	6	....	....	....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	....	....	....	....	....	....	....	2.47	−1.61	0.80	0	12	....	....	....	.....	J. V. Oldham.
Farmers	Rowan	668	31	68.8	− 2.5	90°	11	46°	14	33°	5.27	+0.97	1.06	0	13	13	2	15	e.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	....	....	....	....	....	....	....	3.26	−1.18	0.96	0	11	....	....	....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	....	....	....	....	....	....	....	2.93	−1.08	0.73	0	9	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	....	....	....	....	....	....	....	4.56	+0.82	1.62	0	12	....	....	....	.....	Lockmaster.
Hazard	Perry	869	14	....	....	....	....	....	....	....	7.41	+3.99	1.76	0	12	....	....	....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	3	70.4	.....	90	11	48	6	38	3.84	−0.84	0.65	0	12	7	8	15	sw.	Lockmaster.
Jackson	Breathitt	776	14	....	....	....	....	....	....	....	4.65	.....	1.36	0	7	....	....	....	.....	Jos. T. Goff.
Jenkins	Letcher	1566	12	....	....	....	....	....	....	....	4.99	+0.98	1.18	0	13	....	....	....	.....	R. J. Howard.
Louisa	Lawrence	584	35	....	....	....	....	....	....	....	4 79	+0.03	1.92	0	10	....	....	....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	71.3	− 1.6	91	11†	49	29	37	2.27	−1.78	0.92	0	13	5	22	3	e.	Lockmaster.
Middlesboro	Bell	1128	39	71.4	− 1.0	89	16†	51	14	29	5.33	+0.71	1.12	0	12	14	14	2	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	69.8	− 2.7	90	11†	50	2†	31	5.33	+0.68	1.00	0	9	15	13	2	w.	W. R. McKee.
Oneida	Clay	....	1	....	....	....	....	....	....	....	6.59	.....	1.50	0	8	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	....	....	....	....	....	....	....	1.31	−2.99	0.79	0	11	....	....	....	.....	Lockmaster.
Paintsville	Johnson	620	4	....	....	....	....	....	....	....	6.30	.....	1.28	0	11	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	2	73.0	.....	93	11	54	14†	36	6.83	+2.73	2.37	0	....	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	72.0	.....	93	11	51	14	33	8.59	.....	2.00	0	16	7	9	14	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	69.4	− 2.7	94	24	48	6	39	4.86	+0.79	1.05	0	9	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	681	19	....	....	....	....	....	....	....	5.28	+0.77	1.30	0	10	....	....	....	.....	Lockmaster.
Richmond	Madison	926	41	71.6	− 1.9	88	23†	53	29	27	4 82	+0.74	1.25	0	12	13	10	7	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	....	....	....	....	....	....	....	3.96	−0.74	1.00	0	13	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	....	....	....	....	....	....	....	4.03	+0.06	0.85	0	12	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	41	73.2	− 0.7	90	6†	52	4†	38	3.50	−1.68	1.67	0	13	16	10	4	.....	Wadely West.
Willow, Lock 13	Lee	646	18	....	....	....	....	....	....	....	4.75	+0.40	1.04	0	10	....	....	....	.....	Lockmaster.
Winchester	Clark	964	....	69.8	.....	88	26	52	29	28	3.48	.....	1.21	0	12	....	....	....	.....	Airway Station.
State averages and extremes		.....	.....	71.8	− 2.0	95	4+	45	14	41	3.93	−0.20	2.37	0	11	13	9	8	s.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, °, b, °, appearing in the table indicate number of days missing; for example, b represents two days, etc.

T Precipitation is less than 0.01 inch rain or melted snow

* Also on other dates. †† Received too late to be included in means and summaries.

¶Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.

** Precipitation by U. S. Engineers.

Daily Precipitation for June, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G				.17			T		T.	.14	.15	T.						.48	1.53						2.33	.47	T.					5.27
Birmingham‖ T			.22			.12										.98	.45		1.44						1.16	.10						3.12
Calhoun G	.03										.32							.41	1.40													1.84
Earlington ‖ G	.06	.81					T			.07	.52						T	.02	1.20	.10					.07	.53	.14					3.02
Fords Ferry Dam 50‖ O		.25			T.		.02	.01	T.	.03	1.41	.06				.02	T	T.	1.05	.35			T.	.46	.43	.03	.46					4.58
Greenville G	.25	.10		.80			T.		T.	.20	.30						T.	.75	1.70					.15	1.15	.78						5.68
Henderson O	.45			T.	.18		T.		T.	.22	.40							.45	.83							.28						2.31
Hopkinsville‡ C	.87				.07					.86	.07	.05							.78	.03					.05	.41	.16					2.81
Lovelaceville M	.10						.10		.25	.25				.33				.20	.40													1.68
Mayfield M	.50	.08					.07		.29	.01	T.					.90	.18	.01	.96	.24						T.						3.19
Murray T	1.00	1.00					.16		.06	.82	.18					.82	.05	.04	1.00													3.13
Owensboro‖ O	.06	.70			.20		T.	T.	T.	T.	.85	T.	T.				.01		1.10	.13			T.		2.25	1.25	.35					6.60
Owensboro, Dam 46‖ O	.07	.54			.18			T.	T.	T.	.28	T.						T.	1.19	.10				1.45	1.55	.28						5.68
Paducah‖ G		.18					T.	.01	.09	.17	.83					.15	.02	.25	.40	.04							T.					1.64
Princeton G	1.28	.02					.01		.01	1.00	.38					.40	.02	.01	.97				.23		.12		.01					4.46
Rumsey, Lock No. 2 ‖ G		.02			T.					.10	.18							T.	1.14	.88					.88	.17	.14					3.01
Russellville‖ G		.50	1.60					.04		.31	.18								.22	.10					.11	.70	.50					4.21
Uniontown, Dam 49‖ O	.11	.13			.13		.02	.01	T.	.06	.79	.32						T.	T.	.15						T.	.08					1.98
Central Division																																
Addison, Dam 45‖ O	.41	.24			T.		.09	T.	T.	.05	.03	.04						T.	.56	.11			.02		.72	1.24	.18					3.69
Anchorage O							T.			.09	.02	T.					T.	.53	.42					.09	.29	2.11						3.60
Bowling Green ‖ G	.05	.25			.20		.10	.02		.12	.18							.02	.55	.02					T.	.48	.78					2.72
Brownsville, Lock No. 6‖ G		.23					.05	.01		.07	.11								.35	1.70					.70	.64	.45					4.31
Burnside‖ C		.41	.22					.06		.07	.22	.24						30	.54	1.74	.07		.10		.53	.04						4.54
Carrollton ‖ Lock No. 1 K		.10					.06	.05		.04	.10		.08					.19	.23	.05					.92	1.04						2.81
Cold Spring, Dam 36‖ O		.10			.23		.01	.02		T.	.02	.11	.02					.01		T.					.57	.12	.59					1.80
Danville‖ K	.14	.10	.35		.08			.09		.24	.10		.03					.90	.60	.38	.03				.24	.11	.38					3.74
Dix Dam, Bargin K	.35	.03		.70				.02	.05	.18	T.							37	1.16	.80				.05	T.	.50						3.71
Eubank C		.27	.80								.80							1.23	.70	.68							.17					4.10
Leitchfield G	.11	.05		T			.03		T.	.32	.11							T.	.12	.92			T.		1.80	.72						3.63
Lexington *** K	T.	.24		T			.01		.01	.51	.01	.09						T.	.79	.51	T.					.11	.78						3.06
Little Hickman, Lock No. 8 ‖ K		.10			1.20			.52		T.	.32								1.74	.58	.30					.26		.26					5.28
Lockport, Lock No. 2‖ K		.04									.35	.05							.45	.68	.36					.37	.27	.64					3.21
LOUISVILLE*** O	T.	.20		.02			.07		T.	.16	.01							.23	.11	.48				.02	.45	.47	.01					2.28
Do. Bowman Field O	T.	.14			.02		.01	.01		.10	.01	.03						T.	.55	.47	T.				.22	1.63	.01					3.20
Mammoth Cave G		.46					.07	T		.18								.32	.02	.71	.06			.01	1.15	.64	.01					3.53
Monticello ‖ C	1.09	.29	.18					.29		.13		.27								1.03	.99					.24	.40						4.91
Munfordville ‖ G																																
St. John‖ S	.08	.25					.88	T.		.30	.24							T.	.87	1.38					.63	.88	.37					4.88
Salvisa, Lock No 6 ‖ K		.19	T.		.12		T	.15		T.	.22	.20						.27	.20	.50						.20	.48					2.53
Shelbyville‡ S		.32	T.		.31		T.	.31		.07	.13	.12	.01					.16	.56	.14						.10	.52					2.75
Shepherdsville S							.42			.13		.09						.10	.70						1.00	.90						3.34
Smith's Grove G	.26	.24					.26	.22		.18	.12	T.							1.18						.93	.03	.03	T.				3.45
Stearns C	.01	.19	.28					.05		.20	.18	.13	.09			.03			.23	1.47	.17		.07			.04	.59					3.76
Tyrone, Lock No. 5‖ K		.05			.08		.08	.10		T.	.03	.08					T.	.12	.37	.18					.30	.25	.78					2.43
Williamstown ‖ L											.25	.11						.08		.30					.50		.50					1.74
Woodbury, Lock No. 4‖ G	T.	.09			.61		.06			.18	.20	.08					.29	.03	.38	.17					.41	.54	.32					3.36
Eastern Division																																
Annville C		.21	.26		.08				.06	.31	.40		.12					.25	.88	.15	.60	.03		.02	T.	.01	.04	.72					4.14
Ashland ‖ O		T.	.55		.21			.61		T.	1.27	.05	T.					.13	T.	.72	.07					.05	1.98	.01					5.65
Berea K		.35			.36		.75			.70	.09	T.						.75	.32	.90	.35					.10	.52						5.75
College Hill, Lock No. 11‖ K		.20	.20		.05			.73		.29	.49		T.						.50	.27	.75				.18	.04	.54						4.24
Cumberland C																																
Cynthiana‖ L	T.				T.			.05	T.									.35		.27	1.17				.34		.51					2.69
Falmouth‖ L			.02		.05		T.	.84		T.	.17	.18	.04						.03	.21	.28					.80	.10	.28					2.47
Farmers‖ L		.22	.23					.70			1.06		.22						.25	.53	.20	.05			.58	.45	.05	.78					5.27
Flemingsburg‡ L				.16	.19					.15	.24	.26	.04				.22		.29	.56	.19						.96					3.26
Ford, Lock No. 10‖ K		.31	.15		T.			.50		.02	.31		.01						.73	.49	T.				T.	T.	.41					2.93
Greenup, Dam 30‖ O		T.	.26		.35			.30		T.	.20	.10	.09						.95	.38	.18			.12			.66	1.62					4.56
Hazard‖ K			.65					.10			.15		.10		.80		.32	1.40		.28	1.30				.15	.90	1.76					7.41
Heidelberg, Lock No. 14‖ K		.08	.14		T.			.02		.01	.44							.18	.40		.60	.52		.01			.29	.65					3.84
Jackson‖ K			.78					.18					.35					T.	1.36	T.	1.25	T.	.08				.65					4.65
Jenkins‖ B		T.	.22					.22					.63					.44	.21	.82	1.17	.04	.08		.30	.16	1.18	.08				4.99
Louisa‖ B			.08		.25			.30			.20							.72	.11	.93	.22	.06					1.92					4.79
Maysville‖ O		T.	.04		.27			.04		.01	.19	.16	.09			.12			.05		.12				.01	.25	.92					2.27
Middlesboro C		.49	.07				.18			.49		.13						.53	1.12	.45				.48	.12	.90		.42					5.33
Mount Sterling L				.30	T.	.70	T.		T.	.75	.88	.20			T.	.60	1.00		.70	T.				T.		.70						5.38
Oneida‖ K			1.30					.35								.45		1.50	.14	1.40						.90	.55					6.59
Oneonta Dam 35‖ O		.02			.03			.11		.03	.04	.05	T.						.01	T.	.07				.10	.06	.79					1.31
Paintsville ‖ B			.64					.92		.01	.20		.44					.76	1.28		.85			.24	.03		T.	.93					6.30
Pikeville B		.12	.68		.10		.16			.03	T.	.14	.50			.21	.71	.10	.45	2.37	.05	T.	.06			.92	.22	.67	T.				6.53
Pippapass K		.28	.52				.07			.65		.64	.01			.18	2.00	.48	.09	2.00		.20			.45	.03	.94	.05				8.59
Quicksand‖ K			.40					.62		.10			.19					.26	.58	1.05	.65						.61					4.86
Ravenna, Lock No. 12‖ K		.17	.10		T.			.24		.11	.80							T	1.30	1.26	.44	T.				.61	.75					5.28
Richmond‖ K		.25			.15			.50		.10	.65							.02	1.25	.80	.70				.05	.05	.30					4.82
Valley View, Lock No. 9‖ K		.27	.02		.28			.28		.04	.89							.26	.38	1.00	.50				.03	.05	.46					3.56
Vanceburg, Dam No. 32 ‖ O			.10		.68			.14		.04	.21	.22	.68						.67	.07	.15					.27	.85					4.63
Williamsburg‡ C		.23	.44					.06		.22	.16	.12				.02			.16	1.57				.27		.07	.14	.04				3.50
Willow, Lock No. 13‖ K		.41	.15					.06			1.04						.24	.44	.24	.76						.56	.85					4.75
Winchester K		1.21				.18			.27	.04	.01						.11	.46	.68	.02					.03	.38	.09					3.48

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for June, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	76	82	82	84	80	86	80	82	84	78	88	80	80	84	90	89	86	78	80	84	84	88	90	88	88	88	76	76	78	86	..	83.2
	Minimum	66	66	58	58	63	56	68	54	62	68	64	68	56	52	62	66	68	68	68	68	62	64	68	68	69	72	62	55	53	54	..	62.9
Calhoun	Maximum	78	78	82	80	81	87	82	80	84	79	90	73	78	85	91	87	84	81	78	80	85	91	91	90	84	89	71	75	79	83	..	82.5
	Minimum	60	58	64	55	56	58	58	53	59	67	66	60	54	51	61	66	63	66	63	61	60	60	63	65	71	69	57	53	52	53	..	59.3
Earlington	Maximum	81	80	83	85	81	86	85	82	86	84	89	78	81	86	89	88	86	85	82	84	87	89	90	90	89	87	78	79	82	85	..	84.6
	Minimum	66	64	64	60	60	55	72	53	63	67	64	65	66	62	60	66	68	70	67	66	60	63	70	72	74	61	66	52	54	..	..	62.7
Greenville	Maximum	75	79	82	83	80	81	79	80	85	81	87	79	80	85	88	88	84	78	80	82	83	89	88	86	86	86	75	75	79	84	..	82.3
	Minimum	64	62	54	56	59	52	66	51	59	64	59	65	55	49	57	62	65	66	64	64	60	60	66	66	67	71	58	54	53	52	..	60.0
Henderson	Maximum	80	81	81	88	82	81	77	82	79	81	83	83	80	80	86	88	80	77	81	80	88	90	86	87	83	82	76	75	79	83	..	82.0
	Minimum	66	62	55	64	63	58	68	63	61	66	63	66	54	50	59	64	65	66	64	66	60	63	69	70	69	68	59	52	51	53	..	61.4
Hopkinsville	Maximum	76	80	84	84	82	85	80	81	85	80	87	79	80	84	90	86	84	82	82	88	85	89	90	87	88	85	74	77	80	85	..	83.2
	Minimum	66	64	59	58	61	54	68	54	60	66	63	67	56	56	60	65	56	69	67	68	62	61	69	66	71	69	59	57	55	55	..	62.9
Lovelaceville	Maximum	80	81	83	85	83	86	81	80	84	81	85	86	80	78	82	88	85	80	76	79	83	83	87	86	91	92	88	76	77	80	86	82.9
	Minimum	68	61	53	60	60	52	65	50	62	65	63	63	55	72	57	61	65	67	67	65	62	60	64	68	74	73	60	54	53	54	..	61.8
Mayfield	Maximum	80	75	80	82	80	86	80	81	81	85	89	82	79	84	91	88	84	78	84	82	84	90	90	91	93	89	74	76	81	86	..	83.6
	Minimum	63	61	56	63	62	57	67	65	62	65	63	62	58	57	61	62	63	67	67	66	67	64	66	69	73	71	62	56	55	58	..	63.0
Murray	Maximum	74	80	80	95	83	85	78	76	81	82	86	78	78	83	90	86	82	75	82	82	83	90	85	89	90	85	78	76	79	83	..	82.6
	Minimum	60	64	66	70	72	68	68	64	69	67	65	65	59	57	58	64	64	68	68	67	64	70	71	70	75	72	63	57	55	59	..	65.3
Owensboro	Maximum	78	78	80	84	83	84	83	80	81	80	86	79	80	82	89	87	88	83	82	82	86	88	89	84	85	85	76	76	79	81	..	82.6
	Minimum	63	62	67	60	61	56	65	63	61	66	62	65	63	63	67	64	65	66	64	64	62	63	63	67	67	62	61	55	57	56	..	61.3
Paducah	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	77	82	85	86	84	88	76	80	80	85	86	81	83	88	89	88	84	77	81	84	87	87	89	90	91	84	78	79	81	85	..	83.9
	Minimum	66	64	59	64	63	57	67	65	64	65	64	67	58	56	61	65	57	70	67	67	64	64	71	70	74	71	61	58	58	57	..	64.2
Russellville§§	Maximum	75	79	79	83	78	85	81	78	82	87	87	80	78	82	89	85	86	82	83	82	84	89	90	87	87	88	72	75	78	85	..	82.5
	Minimum	63	67	56	56	59	53	65	55	62	65	63	65	55	50	59	65	67	69	63	67	59	59	67	66	71	67	59	55	53	54	..	61.1
Central Division.																																	
Anchorage	Maximum	73	77	84	82	82	84	75	72	80	77	87	77	83	82	89	88	80	76	73	83	86	89	87	90	84	90	75	77	82	85	..	81.6
	Minimum	61	68	50	55	57	53	62	50	61	57	63	65	50	52	63	66	61	64	65	62	58	68	63	65	68	68	58	54	55	53	..	59.8
Bowling Green	Maximum	76	82	83	85	81	90	80	83	84	79	93	83	82	86	95	91	92	82	82	85	88	92	92	92	90	88	76	78	83	88	..	85.4
	Minimum	64	63	59	57	66	57	57	58	62	65	65	58	60	55	63	70	70	72	69	68	63	65	70	67	70	73	61	57	57	58	..	63.1
Danville	Maximum	73	77	78	80	79	85	82	78	80	78	90	85	78	80	89	88	84	81	73	79	84	88	88	88	82	88	74	74	77	83	..	81.4
	Minimum	56	61	58	50	59	49	60	51	54	66	65	67	54	57	56	65	63	64	64	64	58	58	65	63	68	66	56	51	51	50	..	59.0
Dix Dam	Maximum	76	78	80	77	76	86	85	80	80	79	90	87	79	82	89	90	88	83	79	80	84	89	89	90	88	88	73	76	78	84	..	82.8
	Minimum	58	65	53	56	58	53	64	54	56	69	67	69	56	51	56	69	64	67	68	66	61	60	64	66	79	69	59	55	51	52	..	61.2
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	75	82	85	83	83	86	80	82	83	86	90	82	81	84	95	89	90	89	79	82	88	95	92	91	90	90	78	82	80	84	..	85.2
	Minimum	59	65	50	53	59	51	59	53	56	69	66	66	56	50	54	65	63	67	67	64	59	60	61	65	71	69	59	55	50	53	..	59.8
Greensburg	Maximum	75	81	81	82	83	85	84	83	87	82	91	82	80	83	93	91	89	81	79	83	86	90	90	91	87	90	75	76	80	86	..	84.3
	Minimum	58	61	51	49	58	48	58	51	56	64	65	67	53	49	56	65	65	64	65	65	58	57	60	62	67	69	58	53	49	52	..	58.4
Irvington	Maximum	77	81	80	84	81	84	80	77	83	78	85	78	79	81	87	86	84	76	76	80	84	87	87	88	85	87	75	75	77	81	..	81.2
	Minimum	64	65	58	60	63	57	69	55	61	68	65	66	55	57	62	69	68	68	66	65	62	65	70	70	69	70	60	56	56	57	..	63.2
Leitchfield	Maximum	75	78	80	82	78	83	80	80	85	77	87	77	78	82	89	86	87	77	77	80	82	87	88	91	86	88	74	74	78	85	..	81.7
	Minimum	63	64	56	58	61	55	64	53	60	66	62	67	55	54	60	66	67	68	66	66	62	63	70	68	68	71	60	55	56	56	..	62.0
Lexington	Maximum	79	83	83	85	81	85	77	81	84	82	90	81	81	84	92	90	85	79	81	83	86	90	91	89	89	89	77	79	85	84	..	84.2
	Minimum	66	64	56	60	54	64	52	57	61	67	63	68	54	52	58	64	70	68	66	65	61	62	69	67	69	69	55	54	64	64	..	62.1
Louisville	Maximum	74	77	80	83	78	84	75	78	81	79	87	75	77	80	88	87	82	77	73	80	86	89	89	86	85	85	74	74	78	82	..	80.8
	Minimum	63	65	61	63	64	60	65	60	64	68	68	66	58	61	64	71	70	68	67	65	63	70	72	72	69	69	60	60	57	58	61	64.4
Do. Bowman Field	Maximum	75	77	83	82	78	85	74	78	83	80	88	76	76	85	88	86	81	80	74	79	85	90	88	86	85	91	73	73	85	82	..	81.8
	Minimum	64	65	56	60	62	57	69	55	62	69	66	63	55	57	60	72	67	68	68	65	62	65	67	69	69	70	61	55	54	56	..	62.8
Mammoth Cave	Maximum	76	79	79	82	77	85	80	79	84	76	89	83	78	82	89	86	83	80	80	81	83	87	88	87	86	83	73	74	77	82	..	82.0
	Minimum	61	61	52	48	57	47	64	50	56	64	64	66	52	45	54	66	65	65	65	65	57	56	63	63	66	70	58	50	49	50	..	58.3
St. John	Maximum	71	80	81	84	79	84	80	79	81	81	90	88	77	81	89	91	89	85	81	79	84	88	88	88	87	87	77	75	77	81	..	82.6
	Minimum	62	63	54	51	61	53	62	53	60	66	62	67	55	53	58	67	67	67	65	66	60	63	67	65	67	69	58	54	53	54	..	60.7
Shelbyville	Maximum	72	77	80	82	78	84	74	80	79	80	86	79	77	82	89	87	83	80	78	77	74	89	88	89	88	87	78	74	78	84	..	81.1
	Minimum	58	62	51	54	58	52	61	53	57	66	63	65	53	53	55	65	62	65	64	63	59	60	62	63	68	66	58	51	52	53	..	59.0
Smith's Grove	Maximum	77	81	81	82	80	86	80	81	86	77	90	82	80	86	90	88	86	83	83	82	85	90	88	87	87	89	84	77	81	85	..	83.8
	Minimum	61	62	59	55	58	50	65	54	60	66	66	66	54	50	58	67	69	69	66	64	59	58	65	65	68	69	58	54	53	54	..	60.7
Stearns	Maximum	76	74	78	78	80	86	84	78	84	78	84	80	76	82	84	84	86	82	80	78	78	86	84	86	80	84	66	72	77	78	..	79.8
	Minimum	58	60	54	50	58	52	58	60	56	64	64	66	60	52	58	62	64	64	60	64	60	56	62	60	68	66	60	54	54	54	..	59.9
Williamstown	Maximum	78	82	86	84	84	80	88	83	85	82	90	90	82	85	92	91	84	84	81	81	84	90	95	93	88	83	78	81	83	85	..	85.6
	Minimum	59	64	55	58	59	55	64	52	58	67	66	65	54	53	57	68	63	65	67	63	61	63	63	66	71	68	57	53	53	55	..	60.7
Eastern Division.																																	
Ashland	Maximum	81	78	79	81	80	86	84	77	79	86	90	82	78	79	86	85	83	76	75	78	79	85	88	89	85	88	70	75	77	82	..	81.4
	Minimum	61	64	56	51	59	68	60	58	55	65	66	66	60	51	52	66	65	65	61	66	64	62	64	66	69	68	58	59	52	54	..	61.0
Berea	Maximum	68	71	78	80	82	86	82	78	81	79	89	80	77	81	87	86	82	79	75	79	81	87	87	87	87	88	74	77	82	..	..	80.5
	Minimum	..	..	..	52	52	55	56	56	56	62	68	70	58	50	58	66	66	66	66	65	60	57	64	64	68	67	57	63	51	54	..	60.3
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	..	77	80	82	81	87	85	79	81	83	90	84	75	79	89	84	86	82	74	79	82	88	80	89	87	88	73	76	77	79	..	*81.9
	Minimum	..	53	51	55	54	55	53	52	50	63	61	60	58	46	47	60	59	61	61	61	57	58	57	60	64	66	56	48	48	47	..	*55.8
Heidelberg	Maximum	72	78	80	80	82	86	85	80	82	80	89	82	78	82	87	86	82	78	76	81	86	88	89	88	89	88	72	75	78	84	..	81.7
	Minimum	58	63	56	49	57	48	58	59	52	65	64	64	60	50	53	63	64	64	66	66	60	57	59	62	68	67	61	57	50	53	..	59.0
Maysville	Maximum	78	78	82	82	79	88	77	78	80	84	91	84	77	82	90	88	85	81	76	80	86	91	90	91	87	90	75	77	80	84	..	83.0
	Minimum	69	66	50	50	60	52	61	53	54	65	66	64	58	52	53	67	61	66	66	65	58	61	62	65	72	70	59	50	49	54	..	60.6
Middlesboro	Maximum	69	74	83	80	85	85	82	81	87	81	88	85	79	87	85	89	89	84	76	83	80	87	88	85	83	85	80	78	82	78	..	82.6
	Minimum	66	63	58	52	57	52	55	60	54	64	67	76	57	51	55	61	63	63	66	64	67	64	66	61	61	65	70	63	55	53	53	60.3
Mount Sterling	Maximum	74	75	78	76	78	75	80	88	87	86	90	78	75	86	86	82	83	72	80	83	88	89	88	90	89	89	70	74	75	80	..	81.5
	Minimum	52	50	52	53	56	50	54	57	58	62	68	50	60	57	55	62	63	65	60	60	60	65	63	65	64	65	52	52	53	58	..	58.0
Pikeville	Maximum	88	77	82	84	82	91	90	82	88	92	93	91	83	84	90	89	86	77	84	82	81	78	92	90	85	92	69	78	82	84	..	85.0
	Minimum	58	62	60	56	62	55	57	63	55	66	64	65	62	54	54	62	64	65	65	66	62	63	62	62	66	69	67	55	56	56	..	61.1
Pippapass	Maximum	80	81	83	83	85	90	86	83	85	88	93	87	85	85	88	87	83	85	78	82	84	88	92	91	88	91	81	82	84	..	..	85.3
	Minimum	65	64	60	55	57	57	55	59	52	64	62	60	59	51	50	62	64	63	64	65	60	60	60	61	63	68	61	59	53	52	..	58.8
Quicksand	Maximum	75	75	81	88	82	87	91	78	84	86	90	85	78	86	84	86	81	82	74	81	81	86	90	94	80	90	76	76	77	80	..	81.1
	Minimum	55	60	56	49	56	48	54	60	52	64	62	63	56	50	51	62	61	62	63	61	57	60	58	62	65	67	59	55	50	51	..	57.6
Richmond	Maximum	76	77	78	80	80	82	80	78	80	80	87	80	78	81	87	86	80	78	72	80	82	85	88	88	83	88	73	75	76	80	..	80.6
	Minimum	60	62	57	66	60	58	67	57	60	67	66	70	58	58	60	67	66	66	66	65	62	62	66	68	70	68	60	55	53	58	..	62.7
Williamsburg	Maximum	70	76	80	81	85	90	89	84	89	88	90	82	80	85	90	89	90	89	78	89	88	88	89	90	88	84	74	77	82	85	..	84.6
	Minimum	59	61	53	52	61	72	59	65	57	55	64	66	59	66	52	65	65	69	67	64	69	60	59	63	68	71	62	55	53	64	..	61.8
Winchester	Maximum	72	74	76	77	78	82	79	76	80	77	87	77	76	80	84	85	80	78	72	78	82	87	87	86	81	88	71	74	76	80	..	79.3
	Minimum	60	62	55	54	60	54	63	56	57	66	67	68	56	56	57	67	65	65	65	64	60	60	63	65	63	67	58	53	52	55	..	61.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 7-26-38-1100

1.85
K E

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., JULY, 1938 No. 7

GENERAL SUMMARY.

Except for some extreme northern and southwestern counties, which remained too dry during the first decade, all parts of the State received ample moisture. Excessive rains in the northeastern counties near the middle of the month caused much damage to hillside lands by washing and to crops in creek bottoms by overflow with water and mud. Repeated heavy rains in the middle and lower Green River Valley kept bottom lands so wet that crops could not be cultivated. The rains of the 12th broke a dry spell of three weeks in the Purchase and a few southern counties to the eastward, where crops had suffered to some extent. Marked improvement occurred in crop conditions in that section and in the extreme northern counties during the last half of the month. Heavy to excessive rains in most districts in the last two days caused much damage by flooding and drowning of crops. At the end of the month the soil was so waterlogged that only crops on well drained uplands were doing well.

With the exception of limited areas to the north and west, pastures remained good throughout the month. They developed luxuriantly in all sections during the last half. Forage crops grew more rank and coarse than desirable. The frequent rains interfered seriously with threshing and haymaking. Much alfalfa stood too long before the weather gave opportunity for cutting, and damage resulted from the soaking rains after the hay was cut. Grain that had not been threshed by the 12th was damaged in shock in many places. The wet weather of the last half favored the development of tobacco rust, which increased to damaging proportions in the dark district.

Domestic and market gardens continued exceptionally productive during the month. Loss of ripening tomatoes increased toward the end. The digging of white potatoes revealed the finest crop in many years. Where digging was delayed the saturated soil caused some loss by rotting. Day temperatures were rather low for corn at times, but the nights were warm enough that growth was not appreciably delayed. In the wet areas the reaction of varying types of soil to a superabundance of water caused irregularity in growth. The cotton district received too much rain for best results.

TEMPERATURE.

The monthly average was almost normal, but daily means were somewhat variable. This was due mainly to moderate or rather low maximum temperatures, which were affected on many days by cloudiness and rain. Minimum temperatures rarely fell below normal. Cool periods occurred in the third week and near the end, while the second week was comparatively warm. The highest for the State was 100° at Williamstown on the 10th and at Mayfield on the 11th. The lowest was 52° at Danville on the 2d.

PRECIPITATION.

The average precipitation was the highest for this month since 1910, and the third highest on record for July. At some central and southeastern stations it ranged from 4.0 to 6.0 inches. Most other parts of the State received from 6.0 to 10.0 inches. Some southwestern stations and a few in the eastern mountain district reported from 10.0 to 12.0 inches. The range for the State was between 3.01 inches at Monticello and 15.48 inches at Quicksand. Light to heavy showers occurred in the periods 1st-3d and 9-12th. The rains of the 14-15th were light and irregular in the central counties but heavy to excessive in eastern districts. Twenty-four hour amounts on the 14th varied between 3.0 and 6.0 inches over much of the section from the upper Kentucky north to the Ohio River. Moderate to heavy rains occurred generally in the period 18-20th, and heavy to excessive rains on the last two days. There were scattered showers from the 21st to 26th. Days with thundershowers were: 2, 7, 8, 9, 11, 12, 13, 14, 17, 18, 21, 23, 28, 29, 30, 31.

MISCELLANEOUS.

July 11.—Damage to wire systems and buildings by windstorms in Henderson, Hopkins, Breckenridge and Jefferson counties was about $10,000. Three persons were injured.

July 15.—Washouts destroyed seven bridges in Mason and Rowan counties. A young man was drowned in Rockcastle Creek near Inez. Sections of Morehead, Lewisburg, Orangeburg, Helena and Claysville were covered with flood water. U. S. Highway 60 was blocked by water in Rowan County.

Rivers.—The Ohio declined to pool stage during the first week, but rose moderately and remained above pool stage at most stations during the last half of the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	29.96	30.17	12	29.81	31	6.1	21	se.	12	84	59	60	76
Cincinnati ..... Ohio	29.98	30.11	10	29.78	14	2.4	21	nw.	2	88	62	66	70
Evansville ..... Ind.	29.97	30.13	10	29.83	2	6.2	30	ne.	11	81	57	59	66
Louisville ..... Ky.	29.99	30.14	10	29.81	2	7.6	43	sw.	11	81	56	62	63

COMPARATIVE DATA FOR JULY.

Year.	Temperature. †Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	75.1	98	50	5.62	..	..	..	..	..
1890	73.0	101	44	2.66	..	..	..	..	..
1891	74.0	91	47	4.08	..	..	..	..	..
1892	76.5	100	48	3.30	..	..	..	..	..
1893	78.8	101	50	3.48	..	..	..	..	..
1894	76.2	105	43	2.03	..	..	..	..	..
1895	75.2	99	49	5.75	..	9	10	13	8
1896	77.4	103	47	7.44	0	11	11	12	8
1897	77.8	107	50	4.79	0	10	14	11	6
1898	77.8	102	48	4.71	0	11	13	13	5
1899	77.3	100	47	3.78	0	9	15	10	6
1900	77.9	101	50	4.91	0	11	15	11	5
1901	81.7	112	48	1.72	0	5	21	7	3
1902	78.1	107	48	1.91	0	6	19	9	3
1903	77.5	104	49	3.53	0	8	17	9	5
1904	75.2	99	46	3.40	0	10	16	9	6
1905	75.9	102	52	5.93	0	13	14	9	8
1906	75.2	100	51	6.02	0	11	14	9	8
1907	78.1	102	40	4.71	0	9	18	8	5
1908	76.9	100	50	3.94	0	10	16	8	7
1909	74.8	99	48	6.01	0	11	14	9	8
1910	76.2	96	51	8.63	0	16	10	9	12
1911	75.8	105	42	2.28	0	7	16	8	7
1912	76.8	100	53	5.50	0	12	13	10	8
1913	79.9	109	48	2.54	0	7	17	10	4
1914	78.8	109	43	3.20	0	6	17	9	5
1915	75.7	102	49	5.30	0	11	14	11	6
1916	78.6	102	52	4.17	0	9	17	9	5
1917	75.3	100	50	4.38	0	11	12	10	9
1918	73.8	103	46	3.28	0	8	15	9	7
1919	79.5	104	50	2.10	0	5	20	8	3
1920	75.2	99	44	3.33	0	9	16	9	6
1921	81.1	106	52	2.65	0	7	17	10	4
1922	76.4	102	47	4.77	0	9	17	9	5
1923	76.8	99	44	3.59	0	8	17	9	5
1924	73.7	99	45	3.63	0	8	18	8	5
1925	76.7	105	46	3.93	0	9	15	10	6
1926	77.6	107	43	4.36	0	9	16	9	6
1927	75.7	101	45	3.71	0	9	17	9	5
1928	77.0	100	50	4.07	0	8	17	10	4
1929	76.7	101	46	3.97	0	9	16	10	5
1930	80.5	114	45	1.25	0	5	21	7	3
1931	79.9	104	51	3.85	0	8	18	8	5
1932	78.5	103	49	4.31	0	8	19	7	5
1933	77.0	106	47	6.05	0	10	15	8	8
1934	81.2	110	57	4.34	0	10	15	10	6
1935	78.8	103	56	5.16	0	10	16	10	5
1936	81.4	113	46	3.78	0	10	15	10	6
1937	75.6	102	41	8.04	0	7	17	10	4
1938	77.2	100	52	7.27	0	11	13	9	9
Period	77.2	114	40	4.17	0	9	16	9	6

†49-year averages.

Climatological Data for July, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	...	78.1	+ 0.3	96	11	61	5	28	7.86	+3.88	2.23	0	10	13	13	5	s.	Eldred G. Young.
Birmingham	Marshall	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Tennessee Valley Authority.
Calhoun	McLean	437	34	78.8	+ 0.4	98	11	60	16	34	7.51	+4.01	2.50	0	7	18	4	9	.....	R. C. Bennett.
Earlington	Hopkins	420	44	78.8	− 0.1	98	11	60	16†	32	8.24	+4.79	1.97	0	9	23	0	8	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	....	....	....	....	....	....	....	5.21	+1.99	1.30	0	11	....	....	....	.....	Lockmaster.
Greenville	Muhlenburg	519	21	76.9	− 1.1	95	11	59	16	30	9.82	+6.07	2.96	0	9	18	10	13	s.	C. R. Lovell.
Henderson	Henderson	382	16	77.6	.....	96	7†	60	16	31	6.43	+3.24	1.69	0	11	16	13	2	w.	Frank Street.
Hopkinsville	Christian	524	42	78.2	− 0.9	99	11	61	16†	30	5.63	+1.90	1.57	0	11	22	5	4	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	°77.8	− 2.0	99ª	10	60ª	15	32ª	7.96	+2.58	2.00	0	7	24	2	6	s.	Blaine Malone.
Mayfield	Calloway	364	29	79.3	+ 0.4	100	11	60	16	30	11.71	+7.97	3.70	0	7	17	10	4	n.	Mrs. Joe Payne.
Murray	Graves	412	12	78.4	− 1.0	97	11	63	1	28	7.98	+4.65	3.32	0	9	2	23	6	s.	Pat W. Wear.
Owensboro	Daviess	420	41	76.5	− 1.5	94	11	60	16	28	8.12	+5.09	2.38	0	9	16	2	13	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	....	....	....	....	....	....	....	8.46	+5.15	1.86	0	9	....	....	....	.....	Lockmaster.
Paducah **	McCracken	341	18	....	....	....	....	....	....	....	8.68	+5.20	2.55	0	9	15	9	7	.....	Joe Lagore.
Princeton	Caldwell	529	31	78.9	+ 0.3	98	11	62	16	29	9.21	+5.37	3.85	0	12	7	13	6	sw	Dr. W. L. Cash.
Ramsey, Lock 2‡	McLean	384	21	....	....	....	....	....	....	....	7.11	+4.03	1.98	0	9	....	....	....	.....	Lockmaster.
Russellville	Logan	590	25	°77.2	− 1.0	95ª	11	60ª	5†	28	11.83	+7.56	5.16	0	8	18	4	9	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	....	....	....	....	....	....	....	5.64	+2.47	1.95	0	9	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	....	....	....	....	....	....	....	4.65	+1.57	2.61	0	10	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	38	75.9	− 0.4	95	11	58	6	31	8.40	+4.39	2.91	0	13	14	9	8	sw.	C. E. Barret.
Bowling Green	Warren	500	42	79.2	− 0.1	99	11	64	5†	29	11.05	+7.07	3.20	0	10	11	13	6	s.	Mrs. Lillie G Causey.
Brownsville, Lock 6‡	Edmonson	410	21	....	....	....	....	....	....	....	6.38	+2.98	1.42	0	7	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	47	....	....	....	....	....	....	....	4.02	−0.49	1.05	0	11	....	....	....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	....	....	....	....	....	....	....	4.31	+0.96	1.46	0	7	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	....	....	....	....	....	....	....	7.09	+3.21	2.66	0	10	....	....	....	.....	Lockmaster.
Danville	Boyle	956	14	75.6	.	94	11	52	2	33	4.65	−0.01	1.38	0	11	13	5	13	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	78.2	+ 0.4	95	11	59	5	31	6.98	+2.93	1.45	0	12	18	8	5	.....	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	....	....	....	....	....	....	....	5.34	+1.18	1.03	0	8	11	12	8	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	78.4	+ 1.2	97	10†	58	5	35	6.86	+2.90	2.63	0	12	14	13	4	sw.	Lockmaster.
Gest, Lock 3	Henry	499	28	....	....	....	....	....	....	....	5.91	+1.75	2.65	0	7	....	....	....	.....	Lockmaster.
Grant, Dam 38	Boone	506	13	....	....	....	....	....	....	....	7.68	+4.11	2.95	0	7	....	....	....	.....	Lockmaster.
Greensburg	Green	854	45	77.1	+ 0.5	97	11	56	5	34	5.58	+1.74	1.58	0	13	4	2	25	sw.	Mrs. Bettie K. H. Aleorn.
High Bridge, Lock 7	Jessamine	844	36	....	....	....	....	....	....	....	6.36	+2.34	1.41	0	12	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	40	77.0	− 0.6	93	11	62	6†	29	4.91	+1.84	2.27	0	8	16	7	8	w.	W. J. Piggot.
Lancaster	Garrard	1032	12	....	....	....	....	....	....	....	7.27	+2.88	1.92	0	13	....	....	....	.....	Walter Killion.
Leitchfield	Grayson	635	42	77.8	+ 0.7	98	11	61	6†	29	3.57	−0.09	0.73	0	9	10	16	5	sw.	H. B. Willis.
Lexington	Fayette	989	54	77.5	+ 1.6	96	7	59	5	30	6.81	+3.16	1.36	0	13	15	8	8	.....	U. S. Weather Bureau.
Little Hickman, Lock 8¶	Jessamine	560	28	....	....	....	....	....	....	....	6.37	+1.61	1.50	0	11	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	....	....	....	....	....	....	....	4.90	+1.32	2.85	0	7	....	....	....	.....	Lockmaster.
Louisville	Jefferson	459	65	78.6	0.0	97	11	65	5	29	6.95	+3.25	2.61	0	10	13	8	10	sw.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	....	77.8	.....	95	11	61	5	27	5.17	.....	1.07	0	12	....	....	....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	....	3	75.8	.....	96	17	65	6	36	8.09	.....	2.50	0	12	16	8	7	sw.	Ivan J. Ellsworth.
Monticello	Wayne	....	....	....	....	....	....	....	....	....	3.01	.....	1.20	0	10	8	12	11	.....	E. O. Cooper
Munfordville	Hart	600	9	....	....	....	....	....	....	....	6.50	+3.98	1.64	0	10	....	....	....	.....	Mrs. M. W. Price.
St. Jonn	Hardin	777	42	76.8	− 0.1	95	11	60	5†	28	5.33	+2.00	2.46	0	11	13	10	8	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	....	....	....	....	....	....	....	4.73	+0.93	1.25	0	8	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	45	76.2	− 0.6	97	11	58	5	32	6.83	+3.02	3.44	0	12	13	1	17	s.	Miss Ruth Ratta.
Shepherdsville	Bullitt	500	1	....	....	....	....	....	....	....	6.40	.....	2.60	0	9	17	7	7	sw.	A. McLeod.
Smith's Grove	Warren	607	....	77.6	.....	96	10	60	5	33	171	.....	4.39	0	16	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	2	75.6	.....	91	11†	57	5	29	8.99	.....	1.46	0	11	....	....	....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	....	....	....	....	....	....	....	4.65	+0.47	1.70	0	8	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	35	78.9	+ 2.7	100	10	58	5	34	5.22	+1.66	2.30	0	9	19	2	10	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	21	....	....	....	....	....	....	....	6.14	+2.67	1.78	0	8	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	7	....	....	....	....	....	....	....	7.66	.....	2.45	0	11	7	16	8	sw.	W. A. Worthington.
Ashland	Boyd	534	21	76.4	− 0.1	93	10†	57	5	27	7.05	+2.86	3.88	0	15	12	8	11	s.	Lockmaster.
Berea	Madison	1070	35	76.6	+ 0.3	94	11	55	6	32	6.37	+1.53	1.34	0	11	13	4	14	sw	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	....	....	....	....	....	....	....	14.16	‡	5.63	0	14	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	C. Bertrand Fields.
Cynthiana	Harrison	684	20	....	....	....	....	....	....	....	6.18	+2.76	2.02	0	10	....	....	....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	....	....	....	....	....	....	....	9.84	+6.19	6.01	0	11	....	....	....	.....	J. V. Oldham.
Farmers	Rowan	668	31	°76.8	+ 1.7	95ª	10†	60[1]	16	30[1]	8.08	+3.70	3.74	0	15	7	6	18	w.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	....	....	....	....	....	....	....	10.45	+6.76	5.38	0	12	....	....	....	.....	C. A. Ghiselock
Ford, Lock 10¶	Clark	593	22	....	....	....	....	....	....	....	3.69	−1.11	0.77	0	10	....	....	....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	....	....	....	....	....	....	....	6.25	+1.90	3.21	0	13	....	....	....	.....	Lockmaster.
Hazard	Perry	869	14	....	....	....	....	....	....	....	8.88	+3.34	2.18	0	12	....	....	....	.....	Chas. O. Ihrig.
Heidelberg, Lock 14	Lee	663	3	76.3	.....	94	7†	54	1	36	9.77	+4.69	3.08	0	12	8	9	14	sw	Lockmaster.
Jackson	Breathitt	776	14	....	....	....	....	....	....	....	11.79	.....	2.92	0	12	....	....	....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	....	....	....	....	....	....	....	11.47	+7.69	3.10	0	15	....	....	....	.....	R. J. Howard.
Louisa	Lawrence	564	33	....	....	....	....	....	....	....	8.15	+4.80	2.60	0	12	....	....	....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	77.6	+ 0.8	97	11	54	5	31	9.87	+5.55	6.28	0	12	9	15	7	e.	Lockmaster.
Middlesboro	Bell	1128	39	°76.2	+ 0.9	94ª	11†	58ª	5	33ª	4.16	−0.80	1.80	0	9	16	14	1	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	W. R. McKee.
Oneida	Clay	.....	1	....	....	....	....	....	....	....	7.92	.....	2.40	0	9	....	....	....	.....	Joe L. Gay.
Oneonta, Dam 35¶	Campbell	497	16	....	....	....	....	....	....	....	6.70	+2.45	2.58	0	9	....	....	....	.....	Lockmaster.
Paintsville	Johnson	620	4	....	....	....	....	....	....	....	8.42	.....	2.49	0	16	....	....	....	.....	Manuel Robinson.
Pikeville	Pike	636	2	78.0	.....	96	11	61	6	29	5.73	+1.51	1.06	0	14	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	4	78.2	.....	98	10	57	6	37	....	....	....	....	....	16	14	1	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	75.6	− 1.0	93	7†	53	1	35	15.43	‡	2.85	0	13	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	....	....	....	....	....	....	....	10.94	+6.37	3.31	0	16	....	....	....	.....	Lockmaster.
Richmond	Madison	926	41	77.4	+ 0.5	94	11	62	5	27	9.02	+6.00	3.50	0	14	15	6	10	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	....	....	....	....	....	....	....	6.14	+2.10	1.20	0	11	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	625	21	....	....	....	....	....	....	....	6.93	+2.21	2.25	0	11	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	929	41	77.8	+ 0.6	97	11	59	6	34	....	....	....	....	....	22	5	4	.....	Wadely West.
Willow, Lock 13	Lee	646	18	....	....	....	....	....	....	....	7.43	+2.61	4.20	0	9	....	....	....	.....	Lockmaster.
Winchester	Clark	964	....	75.8	.....	93	11	58	5	30	6.31	.....	2.46	0	12	....	....	....	.....	Airway Station.
State averages and extremes		.....	.....	77.2	0.0	100	10†	52	2	37	7.27	+3.10	6.28	0	11	13	9	9	sw.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, ª, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

¶Post-office addresses—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.

[1]+10.00 ‡+10.10

** Precipitation by U. S. Engineers.

Daily Precipitation for July, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G		1.78	T.					.75	T.			.68					.01	.71	.06		.51								.70	.40	2.23	7.86
Birmingham‖ T																																
Calhoun G		.92						.91				1.47					.15	1.06										T.	.50	T.	2.50	7.81
Farlington‖ G		T.	.41						.12			1.78	.02					1.40	.49										.16	1.80	1.97	8.24
Fords Ferry Dam 60‖ O			.42					.02	.84			.82	.44	T.				1.30	.03										.25	.24	1.30	5.21
Greenville G		1.42	T.									1.50					.26	1.10	.13									T.	1.40	.70	2.96	9.82
Henderson O		.35						T.	.07			1.68					.47	1.43	.19									.28	.01	.18	1.69	6.43
Hopkinsville* C		.15	.25					T.	.20			1.23	.15					1.57	.15								.07	.08		.82	1.40	5.63
Lovelaceville M									.55		.81					.95	.75										.90	2.60	2.00			7.96
Mayfield M						T.						1.19		T			.14	1.20										1.20	.96	8.32	3.70	11.71
Murray T									.28			1.60		.12			.20	1.20										.48	.25	.52	3.32	7.98
Owensboro‖ O		.53	.89						.59			1.27						.94	1.89			T.							.05	.08	2.38	8.12
Owensboro, Dam 46‖ O		.17	.48						.44			.77		T.				.84	1.36										.04	.07	1.29	5.46
Paducah‖ K			.01					.87	.35			.16	1.12					2.15	T.										.89	.64	2.55	8.68
Princeton G		.77	.05			T.			.65		T.	1.65					.39	1.00	.01									.27	.24	.77	3.35	9.21
Ramsey, Lock No. 2‖ G		.18	.85						.88			1.40		T.				.70	.62										.10	.60	1.38	7.11
Russellville‖ G		3.20	.06							.04		1.09					1.58			.43									.27	5.16	11.83
Uniontown Dam 49‖ O			.55									1.95	.65					1.01	.05	.03									.89	.11	.40	5.64
Central Division																																
Addison, Dam 45‖ O		.01	.32						.07			.15		.02				.79	.35	.27										.06	2.61	4.65
Auchorage O		.19	1.33	.04					.34		1.91			.03			T.	.83	.18	.04	.08			.09					T.	.43	2.91	8.40
Bowling Green‖ G			1.67		.80							1.40						.78		3.20						.61	.08		.20	.56	2.30	11.05
Brownsville, Lock No. 6‖ G			1.42									1.27						.83			1.40								.06	.12	1.28	6.88
Burnside‖ C			.30							.09		1.05		.34	.06			.54	.21	.81	.06									.96	.10	4.02
Carrollton Lock No. 1‖ K		.72							.27					.18				1.25	.21											.22	1.46	4.81
Cold Spring, Dam 36‖ O	T.	.28	.21						.75	.01				2.66	T.			1.05	.80										.15	.02	1.16	7.09
Danville‖ K			.29									.84		.01				.65	.38	.39	.03	.02			.14					.52	1.38	4.65
Dix Dam, Burgin K		.48	1.						.18		1.45		.80	.24			.66	.15	.66				.07						.87	1.22	.70	6.98
Eubank C			.47									.82			.80			.73		.43					.83	1.03					.23	5.34
Frankfort, Lock No. 4‖ K		.02	.81									.72		.16				.14	.35	.02	.08					1.85			.07	.01	2.63	6.86
Gest, Lock No. 3‖ K	.25	1.10		T							.99			.19				.54	.19										T.	.65	2.91	5.81
Grant, Dam 38‖ O		.29	.10						.45				2.95					2.00	.88										T.		1.06	7.68
Greensburg‖ G			.73						.22	.01		.88		.13				1.47	.10	.06	.13	.01	.02							.24	1.58	5.58
Hiseville, Lock No. 7‖ K	T.		.49						.02	.12	T.	1.41		.04	.09			.31	.79	.87	.07								T.	.50	1.28	6.39
Irvington O		.38						T.	.05			.12		.02				1.86	T.										.03	.23	2.27	4.91
Lancaster‖ K		.15	.04								.83		.04				.25	.66	1.92	.14		.45		.53					.31	1.28	.67	7.27
Leitchfield‖ G			.57						.52			.78			T.			.60	.17	.02						.85				.17	.44	3.57
Lexington *** K	.01	.50	T.					.03	T.		.19		.03	1.18				.78	1.16	.01	1.36	.01							.08	.78	.69	6.81
Little Hickman, Lock No. 8‖ K			.33							.15	.12	.75		.40				.50	T.	.50				.10		.22				.80	1.50	5.37
Lockport, Lock No. 2‖ K			.58								T.	.54	.17					.71	.21	.84	T.										2.35	4.90
LOUISVILLE*** O	.20	.85							.15		.72		.01				.17	.91	T.										.08	1.33	2.58	6.93
Do. Bowman Field O	.22	.97	.02						.28			.67		.02			T.	1.07	.06			.57							.01	.66	.62	5.17
Mammoth Cave G			.98						.83			.66						1.14	.01	.61	.70			.18	.23				.01	.24	2.50	8.09
Monticello‖ S			.20								.06	1.20			.04			.88		.38		.04	.40							.27	.04	3.01
Munfordville‖ G			.94						.11	.09		.81						1.35	.69	.10	.45									.82	1.64	6.50
St. John‖ S			.28						.19			.35		.05				.86	.18	.18	.33					.74				.23	2.46	5.33
Salvisa, Lock No 6‖ K		T.	.50							T		.80		.32				.32	.45	.89	.20	T.							T.	1.25	4.78
Shelbyville‖ K	.66	.22	.83						.02	T.		.47		.15				.19	.47	.16	.04		T.							.20	3.44	6.85
Shepherdsville S		1.30							.20			.40		.20				.90	.20										.20	.50	2.60	6.40
Smith's Grove G		.99	2.00					.08	.16			.54						.80	.78	.88		.28	.24		.01	.04		.04	.20	1.15	4.39	12.51
Stearns K			.41						.34	.07		1.46		.08					.58	.26	.09		.11						.40	.24	8.99
Tyrone, Lock No. 5‖ K		T.	.30						T.		T.	.43		.85	.15			.30	.22	T.	T.	.70								T.	1.70	4.65
Williamstown‖ L			.21	.11										2.30		T.		.57	.33		.10	.50							.10		1.00	5.22
Woodbury, Lock No. 4‖ G		.11	1.78						.09			1.28						.85	.48						T.					.68	.72	6.14
Eastern Division																																
Annville‖ C			.43						.08			1.23		.10	.20			.66	.89	.18			1.85							2.45	.14	7.66
Ashland‖ O		.30	3.88					.05				.02	.35	.65	.45			.04	.35	.19		.02	.01	.05						.95	.24	7.65
Berea K		.05	.10									.44		.96				.43	1.84	1.25		.16		.70					.15	.80		6.37
College Hill, Lock No. 11‖ K			.10						.26	.39		.98		5.68	.10			.33	.80	2.90		1.02	.08	.30						1.08	.20	14.16
Cumberland C																																
Cynthiana‖ L		T.	.33	T.							.10		T	1.70	.64		.25		.27	.24	.36	.27								T.	2.02	6.18
Falmouth‖ L		.16	.08						T.			.41		6.01	T.			.47	.22	.03		.41							.04	.06	1.55	9.84
Farmers‖ L	.03	.06	.36						.84		1.08		3.74	.42				.38	.06	.02	.01	.01		.65					.80	.12		8.08
Flemingsburg‖ K			.14	.18						.17		1.19		5.38	.50			.87	.78			.60							.15	.66	.36	10.45
Ford, Lock No. 10‖ K		T.	.24	T.								.61		.77	.04			.08	.41	.17		.54		T.	.27					.14	.53	8.69
Greenup, Dam 30‖ O		.05	3.21							.03		.06		1.16	.72			.02	.21	.03		.06		.50						.08	.10	6.25
Hazard‖ K		.15	.10									.56		2.18	1.02			.18	.80	.50	.80									.47	1.02	.10	8.38
Heidelberg, Lock No. 14‖ K			.17						T.			.86		3.08	1.07			.11	.20	1.13	.46	.04	.13	T.						1.47	1.05	9.77
Jackson‖ K			2.05	.18						.91		1.58		2.92	.94			.21	.28	.78			.05							1.85	.04	11.79
Jenkins‖ B		.36	.30	.20					.82	.26		.13		3.10	1.59			.09	.53	.43	.11		.45							1 62	1.18	11.47
Louisa‖ B		.15	.70	.44					.20					2.60	.64				.42	.06		1.70	.65	.08						.82		8.15
Maysville, Dam 33‖ O		.12	.18						.01	.14				6.28	.47			.13	.72			.78								.30	.23	.51	9.87
Middlesboro C			.53					.09	.10			1.80		42				.34	.10	.55									.17				4.10
Mount Sterling L																																
Oneida‖ K								.33				1.49		1.19	.11			.24		1.21		1.10								2.00	.25	7.92
Oneonta Dam 35‖ O		.20	.09						.55					2.38	.02			.77	.41			.18							T.	T.	2.10	6.70
Paintsville‖ B		.21	1.43	.18					.06			.01		2.49	.89			.44	.34	.83	.06	.96	.14	.02						.51	.35	8.42
Pikeville B		.14	.83	T.					.20	.01		T.		.89	1.06			T.	.46	.19	.03	.40	.07	.03						.80	.62	5.73
Pippapass K																																
Quicksand‖ K			2.26	.08						.85		1.80	2.85		1.05		.81		1.02	2.40	.10	1.00	.01	T.						1.70		15.48
Ravenna, Lock No. 12‖ K		T.	.15	.09				.05	.05			1.50		3.31	.38			.10	.84	2.12	T.	.48	T.	.32	.84	.04				.98	.21	10.94
Richmond‖ K		.20	.02					.05			.40		.55	.25			.50	.30	1.40		.50		.05						3.50	.30	1.60	9.02
Valley View, Lock No. 9‖ K			.33									.55		.53				.38	.59	.85	.01	1.20		.05						.80	.85	6.14
Vanceburg, Dam No. 32‖ O		.06	1.72											2.25	1.12			.15	.50			.20		.02						.48	.21	.27	6.93
Williamsburg‖ K		T.	.46						T.			1.19			.10				.07	.39	.17		.06								.55		
Willow, Lock No. 13‖ K			.08									.91		4.20					.13	.25		.44	.08							.68	.65	7.43
Winchester K			.28								.81	.78		2.46	.49			.04	.43	.10		.41		T.	.38					.18	.50	6.81

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station: precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Errata.—May 1938, page 18—Mean temperature for Princeton should be 67.4 and for Russellville 65.8. Total rainfall for Shepherdsville should be 5.50. Page 19—total rainfall for Shepherdsville should be 5.50 and for Maysville 6.44. Page 20—Mean maximum for Princeton should be 77.6 and mean maximum and mean minimum for Russellville 75.9 and 54.8.

Daily Temperatures for July, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	88	85	86	90	86	89	93	90	92	92	96	87	92	88	88	90	88	81	85	90	91	87	90	91	93	94	94	90	82	82	78	88.6
	Minimum	68	72	68	68	61	62	65	72	70	68	58	66	70	76	66	62	63	69	72	70	66	65	68	66	66	66	66	68	71	70	68	67.6
Calhoun	Maximum	88	89	86	91	89	88	93	92	88	93	98	80	94	90	86	90	89	82	87	89	91	90	91	93	94	95	95	89	82	86	74	89.2
	Minimum	65	70	66	70	68	65	61	68	66	64	67	66	68	75	64	60	63	68	70	68	65	64	65	65	65	65	65	66	71	71	65	66.4
Earlington	Maximum	89	88	86	91	90	93	96	93	93	95	98	86	95	95	93	89	89	82	86	90	90	88	92	92	93	93	94	90	80	83	76	90.2
	Minimum	69	74	69	68	62	61	65	69	70	68	72	65	71	77	65	60	60	69	72	67	66	65	66	66	66	67	65	72	72	68	68	67.5
Greenville	Maximum	87	84	84	90	88	90	94	90	92	94	95	90	93	88	85	90	89	82	86	87	90	86	90	89	93	93	93	93	79	85	74	88.5
	Minimum	67	68	65	66	60	60	64	68	67	66	67	63	67	71	63	59	61	67	70	66	65	64	65	64	64	66	65	67	69	67	65	65.8
Henderson	Maximum	85	89	80	91	91	92	96	89	96	93	96	91	86	89	87	88	88	78	86	82	88	86	89	91	88	95	95	93	83	82	80	72	88.0
	Minimum	66	71	67	68	63	61	65	80	69	63	72	66	71	74	63	60	65	69	69	66	64	63	64	64	64	67	67	67	71	71	68	67.0
Hopkinsville	Maximum	88	87	88	92	89	91	96	90	94	96	99	82	92	89	86	88	87	82	87	88	90	86	91	90	91	92	95	89	82	85	76	89.0
	Minimum	66	70	68	69	65	68	65	69	70	68	69	65	63	76	67	61	61	67	70	68	68	68	69	67	67	67	67	67	70	68	67	67.3
Lovelaceville	Maximum	90	93	93	93	91	92	97	92	93	99	91	94	91	87	90	85	81	87	88	85	91	90	91	91	94	90	82	78	80	90	..	#89.6
	Minimum	62	74	73	67	64	62	65	69	69	68	66	70	72	63	60	58	68	64	64	65	62	65	65	63	63	69	70	68	68	65	..	#66.0
Mayfield	Maximum	92	94	92	94	93	95	99	95	97	99	100	94	93	92	86	90	84	83	87	87	91	89	90	91	91	94	95	92	80	83	79	91.0
	Minimum	65	73	73	69	67	66	68	70	70	68	72	65	69	73	66	60	66	67	68	67	66	65	64	67	65	65	67	70	67	65	67.6
Murray	Maximum	88	89	91	90	90	92	96	91	92	93	97	85	92	89	86	87	82	80	87	87	89	86	91	89	87	93	93	87	78	80	75	88.1
	Minimum	68	65	71	70	68	65	68	72	72	70	73	66	70	70	68	64	67	68	71	69	68	69	69	71	69	68	69	71	72	70	67	68.8
Owensboro	Maximum	84	85	82	88	87	88	92	87	89	92	94	91	88	86	85	87	82	80	82	87	89	85	89	88	89	93	91	89	81	83	78	86.6
	Minimum	66	70	68	67	63	64	67	70	68	65	68	64	67	73	64	60	62	67	67	67	67	63	64	67	64	64	65	66	68	70	67	66.4
Paducah	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	90	90	86	92	91	92	96	94	93	96	98	89	94	92	86	90	82	81	85	87	87	87	90	90	90	94	95	84	86	82	76	89.2
	Minimum	67	72	71	71	67	65	67	70	70	70	71	66	69	76	68	62	64	69	72	68	67	68	67	68	68	68	67	70	72	69	68	68.6
Russellville§§	Maximum	85	83	..	89	85	87	93	90	91	91	95	83	92	89	86	88	91	84	87	89	88	85	81	89	90	91	91	94	95	92	80	83	79	91.0
	Minimum	64	70	66	..	60	61	65	69	71	67	69	67	65	75	65	60	67	67	69	71	67	67	68	67	68	65	67	67	70	68	69	66.9
Central Division.																																	
Anchorage	Maximum	74	83	80	85	86	89	91	90	89	93	95	85	90	89	87	90	90	75	80	86	87	86	87	90	89	90	90	90	81	80	77	86.4
	Minimum	67	68	69	68	68	68	61	68	66	66	68	65	69	71	63	59	62	68	68	68	65	65	64	62	68	68	68	67	69	67	66	65.4
Bowling Green	Maximum	88	88	87	88	91	92	85	88	92	94	99	90	93	93	89	89	86	87	89	92	90	90	89	90	91	96	97	92	79	79	80	89.8
	Minimum	67	71	68	71	64	66	74	73	71	71	67	70	77	67	66	66	69	70	70	69	70	70	70	70	71	70	70	69	72	72	68	69.3
Danville	Maximum	80	88	88	85	85	87	92	92	91	93	94	90	91	88	86	87	89	82	82	82	88	85	83	89	90	93	92	93	86	83	87	87.8
	Minimum	65	52	66	65	57	57	59	68	68	64	64	63	69	69	65	59	61	61	61	61	64	63	64	62	62	60	65	68	66	68	68	63.8
Dix Dam	Maximum	82	88	86	85	86	87	89	93	93	94	95	94	90	89	86	89	90	79	78	85	89	90	88	90	91	92	93	93	91	82	86	88.5
	Minimum	79	71	70	66	59	60	61	62	73	68	67	67	70	71	64	61	68	70	71	75	67	70	68	69	66	72	64	68	68	69	70	67.9
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	81	91	90	91	91	94	94	94	97	97	92	93	90	88	90	90	80	85	90	93	88	92	95	92	96	95	93	88	85	90.8
	Minimum	69	70	69	64	58	59	60	65	71	64	66	67	71	72	63	60	62	68	69	68	65	66	67	65	65	66	68	66	71	69	68	66.0
Greensburg	Maximum	83	81	86	87	87	90	95	95	91	94	97	93	94	90	90	91	91	83	83	89	91	87	89	91	93	94	96	96	86	83	85	89.7
	Minimum	65	68	66	64	56	57	61	68	67	64	62	68	65	70	61	59	62	67	68	68	64	65	66	64	65	64	62	64	67	66	67	64.5
Irvington	Maximum	81	83	83	85	84	87	91	90	90	90	93	87	90	86	86	88	85	78	81	87	88	85	87	88	89	90	91	89	82	82	78	86.1
	Minimum	70	70	69	70	62	64	62	71	69	66	69	67	72	76	66	62	65	69	70	68	68	68	67	66	67	66	67	71	72	71	68	68.0
Leitchfield	Maximum	85	82	83	85	86	90	95	93	91	93	96	85	92	87	88	91	90	77	86	89	90	87	92	91	94	92	93	90	80	85	77	88.2
	Minimum	68	69	67	69	62	61	68	68	68	70	70	66	70	76	65	63	65	68	71	68	65	66	68	66	68	66	68	65	66	70	71	69	66	67.5
Lexington	Maximum	78	87	86	86	86	90	96	93	92	95	96	90	93	88	85	88	89	82	79	80	87	90	85	90	90	92	94	93	88	85	84	88	88.9
	Minimum	67	68	60	64	59	64	62	70	70	67	66	63	68	68	63	61	66	68	68	68	67	67	68	67	67	65	65	69	69	69	67	66.1
Louisville	Maximum	77	83	81	84	85	89	92	91	90	92	97	82	92	86	84	86	86	77	82	87	89	87	87	89	89	93	92	89	82	80	75	86.5
	Minimum	72	70	71	69	65	68	71	74	73	72	68	71	75	77	70	69	68	69	69	71	71	71	71	66	71	70	74	77	73	69	68	70.7
Do. Bowman Field	Maximum	76	84	83	87	85	89	95	90	88	93	95	87	91	85	83	91	86	78	84	86	89	86	87	91	89	91	92	89	79	80	76	86.8
	Minimum	71	73	67	69	61	65	68	70	70	67	70	69	70	78	67	62	66	70	70	70	68	69	68	66	67	68	72	74	71	71	71	68.8
Mammoth Cave	Maximum	82	82	88	87	85	87	93	90	89	92	94	87	90	88	87	89	90	82	85	87	89	86	89	87	89	91	92	89	82	84	80	87.5
	Minimum	66	68	65	63	55	56	59	67	69	65	64	64	65	74	66	58	60	68	67	68	62	64	67	65	63	61	61	68	65	64	64	64.2
St. John	Maximum	80	84	84	85	84	88	92	93	91	91	95	92	94	89	85	87	88	79	82	88	88	87	86	89	94	91	91	90	80	81	74	87.2
	Minimum	68	69	67	69	60	60	62	67	65	64	64	66	69	70	62	60	63	67	69	66	64	66	66	63	64	63	64	63	69	69	66	65.4
Shelbyville	Maximum	77	83	81	84	85	89	92	91	90	92	97	82	92	86	84	86	86	77	82	87	89	87	87	89	89	93	92	89	82	80	75	86.5
	Minimum	76	85	82	84	85	87	91	92	92	93	97	89	93	87	86	91	91	79	83	86	89	89	91	91	92	94	94	93	82	82	79	87.9
Smith's Grove	Maximum	66	84	87	87	86	90	61	65	68	66	66	64	68	88	87	90	88	78	84	86	89	86	87	91	89	91	92	89	79	80	76	86.8
	Minimum	66	68	65	66	59	60	63	70	68	65	66	64	66	74	63	64	62	67	67	69	65	67	69	66	68	66	68	66	72	71	71	68.8
Stearns	Maximum	78	86	81	85	84	86	90	84	82	90	91	83	88	88	88	88	88	81	83	82	85	84	83	86	88	90	91	87	82	86	80	85.6
	Minimum	63	68	67	66	57	58	61	69	66	64	68	61	66	72	63	64	66	69	67	68	67	63	66	66	63	64	65	67	68	68	70	65.5
Williamstown	Maximum	83	89	89	89	90	93	98	98	95	100	99	96	94	87	88	91	93	90	91	90	90	90	90	91	96	97	95	85	82	87	91.3
	Minimum	70	71	67	69	68	63	64	69	70	66	69	66	71	70	63	62	64	67	64	70	68	65	67	65	66	67	67	69	70	66	68	66.5
Eastern Division.																																	
Ashland	Maximum	78	85	84	86	83	86	92	90	90	93	98	90	84	88	87	84	86	82	79	84	84	84	83	88	90	91	91	93	84	79	90	86.5
	Minimum	66	68	69	62	57	59	67	72	71	67	67	65	68	67	63	61	63	70	68	69	68	66	69	62	63	66	68	68	62	70	69	66.3
Berea	Maximum	79	84	81	84	83	87	92	91	89	93	94	90	85	84	87	83	86	79	82	84	87	85	86	87	89	90	90	85	85	81	88	86.6
	Minimum	68	71	68	65	58	55	62	71	70	70	67	68	69	68	62	68	65	69	68	68	68	66	70	67	65	64	64	68	69	61	69	66.5
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	89	85	..	..	..	..	..	..	..	95	88	91	85	84	86	89	91	82	82	86	89	88	89	90	92	92	95	94	92	87	88	#88.3
	Minimum	..	..	..	..	..	..	..	..	..	63	63	60	67	62	60	62	62	69	68	71	64	63	65	66	64	64	64	65	66	64	65	70	#65.2
Heidelberg	Maximum	89	85	81	85	86	88	94	91	90	90	94	90	89	85	86	89	90	80	85	87	86	87	86	87	88	92	90	92	92	87	87	88	87.7
	Minimum	64	68	69	64	57	56	59	67	68	66	63	62	68	67	61	64	64	69	70	69	67	67	64	65	67	64	62	65	68	67	68	64.9
Maysville	Maximum	78	89	89	84	85	88	92	96	92	96	98	92	85	91	89	84	85	88	92	83	85	91	89	88	89	93	93	93	88	81	89	89.0
	Minimum	68	70	69	67	54	60	61	66	70	66	67	65	65	66	64	61	63	69	66	71	67	65	69	65	67	67	68	69	72	78	70	66.3
Middlesboro	Maximum	79	..	86	90	88	92	93	89	87	90	94	90	91	91	93	89	88	84	82	90	91	89	88	89	89	93	91	78	85	71	98	94	92	88	88	85	#87.4
	Minimum	59	..	66	66	58	59	61	68	68	66	66	61	67	69	62	65	66	66	68	69	70	66	69	61	64	65	63	65	66	67	63	#65.0
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	83	88	85	88	88	90	94	94	89	95	96	90	92	85	89	90	91	82	87	86	87	89	79	87	91	93	94	94	91	90	90	89.2
	Minimum	62	67	68	68	63	61	65	65	69	70	67	66	68	67	69	66	68	70	69	68	69	65	69	65	66	67	67	66	69	68	65	66.8
Pippapass	Maximum	87	88	86	89	89	90	97	95	93	98	96	96	94	94	91	92	95	83	91	87	87	89	87	90	94	95	94	97	95	95	97	92.0
	Minimum	60	65	68	68	58	57	60	65	68	66	64	64	67	65	64	65	65	67	67	67	67	67	64	69	63	64	63	62	62	61	65	64	64.3
Quicksand	Maximum	82	82	83	77	92	83	93	91	89	92	89	88	91	83	87	87	90	84	85	86	86	87	86	88	91	92	91	93	90	79	90	87.3
	Minimum	53	66	67	63	57	56	59	64	67	66	64	60	65	65	61	69	68	68	68	67	66	65	67	62	63	64	64	64	65	66	65	65	64.9
Richmond	Maximum	80	83	80	85	85	87	92	90	90	92	94	87	90	85	85	88	88	80	83	85	82	84	87	85	90	92	92	88	80	87	86	86.5
	Minimum	67	70	70	65	62	63	68	72	70	70	72	65	70	68	66	66	68	70	68	70	70	68	70	68	68	68	70	72	72	68	70	68.4
Williamsburg	Maximum	84	93	84	82	87	90	96	92	90	94	97	87	95	93	92	92	94	84	87	85	87	79	84	90	92	94	96	96	92	92	93	90.1
	Minimum	61	67	62	64	67	59	65	68	70	64	67	62	63	69	63	67	67	68	68	69	69	65	65	62	63	69	65	65	68	66	68	67	65.4
Winchester	Maximum	77	85	82	83	83	86	92	90	89	91	93	86	87	84	82	85	86	77	79	83	85	83	85	85	89	89	89	80	88	83	80	85	85.2
	Minimum	67	70	67	63	58	61	62	70	69	67	67	64	70	65	64	63	66	68	69	69	68	67	68	65	69	66	66	68	69	68	70	66.5

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
,,* etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 8-26-38-1100

51.05
NKE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., AUGUST 1938 No. 8

THE LIBRARY OF THE UNIVERSITY OF ILLINOIS

GENERAL SUMMARY.

Heavy rains over most of the State in the first week and in the southern counties in the second week directly or indirectly brought further damage to various crops. The saturated soil caused additional rotting of first crop potatoes that had not been dug. Where the soil drained too slowly tobacco scalded and died. Rust became so serious in the dark tobacco district that some crops were not worth cutting. In most places the making of hay was almost impossible, and attempts to do so resulted in loss of the crop. On the flat uplands and the bottom lands of the Green River drainage the growth of corn was retarded. Field tomatoes for canneries continued to rot extensively. Some localities in the Bluegrass region also received heavy rains in the last half of the month.

Weather characterized by light local showers, with most days bright and warm began in the northern counties in the second week and extended to most other sections in the last half of the month. General improvement in the condition of all crops followed the advent of the favorable weather. Fall plowing was resumed near the middle and made good progress late in the month. Seeding to alfalfa began toward the end.

Tobacco cutting commenced early in the first week. The rainy weather and high humidity of the next decade were very unfavorable for the initial stages of curing. Farmers were forced to resort to heating of barns in order to prevent houseburn. Humidity remained somewhat too high all through the month, especially in the burley district, so that the curing process was slower than desirable. Tobacco ripened better as the soil dried out. Cutting was completed on many farms.

Corn withstood the wet weather better than other crops. Late corn recovered to a marked extent late in the month. Much early corn reached maturity and began to dry. Cultivation of late potatoes could not begin until the plants were quite large. The effect of the wet weather showed in rather spindling growth and defective stands. Tomatoes in fields and gardens improved in quality and yield after the dry weather began. Pastures remained luxuriant throughout the month. Cotton lost its rankness of growth and bolls began to open. Unusual earliness in maturity of the staple crops kept pace with the early start in the spring.

TEMPERATURE.

With the exception of a few days scattered through the month, daily mean temperatures were continuously above normal. The temperature excess was greatest in the western and northern counties, where precipitation was relatively light. The warmest periods centered about the 8-10th and 22d-24th, when daily means ranged from 6° to 12° above normal. Extremes for the State were 101° at Quicksand on the 9th and 52° at Winchester on the 26th.

PRECIPITATION.

Precipitation averaged about 25 per cent more than the normal amount for the month. It occurred mainly in the form of local thunderstorms, and varied greatly for the different parts of the State. The south-central and most southeastern districts received from 5.0 to 8.0 inches. This area of heavy rain extended westward across the valleys of the lower Cumberland and Tennessee, and also northward into the southern edge of the Bluegrass region. There were areas in the Purchase, the lower Green River and lower Licking valleys that had only 2.0 to 3.5 inches. Most of the State received considerably more than normal rainfall. The range was between 1.33 inches at Cynthiana and 8.66 inches at Monticello. The heaviest and most general rains occurred in the period 1st-5th. Many stations reported 24-hour falls of 2.0 to 8.0 inches on the 1st and 5th. After this the rainfall was scattered, local, and usually light to moderate; although some stations reported heavy rains. Showers were distributed fairly generally in the periods 11-12th, 17-18th, and 22d-25th. Dates with thunderstorms were: 1, 4, 5, 6, 9, 11, 14, 15, 17, 21, 22, 23, 25.

MISCELLANEOUS.

August 31.—Excessive rain, with accompanying wind, flooded roads, uprooted trees, and damaged crops and wire systems in Hardin, Larue, and Green counties. Some homes in Elizabethtown were flooded.

Rivers.—Moderate stages prevailed in the Ohio until after the middle of the month. They subsided to pool levels about the 20th and remained almost stationary until the end.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.01	30.16	4	29.83	1	6.5	28	sw.	14	90	63	69	88
Cincinnati .....Ohio	30.04	30.22	13	29.86	1	5.3	21	nw.	4	91	61	67	80
Evansville..... Ind.	30.02	30.20	5	29.85	31	6.8	36	n.	8	84	61	63	75
Louisville .....Ky.	30.05	30.24	13	29.87	31	7.7	35	n.	4	88	58	66	71

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889.....	70.6	100	43	1.23	..	..	..	..	..
1890.....	73.2	101	44	6.16	..	..	..	..	..
1891.....	72.9	105	43	5.82	..	..	..	..	..
1892.....	75.4	96	45	3.13	..	..	..	..	..
1893.....	74.8	99	48	1.72	..	..	..	..	..
1894.....	77.1	105	41	3.02	..	5	..	..	..
1895.....	76.6	102	49	2.15	0	6	16	10	5
1896.....	77.1	105	41	2.83	0	9	19	8	4
1897.....	75.2	101	49	2.33	0	7	18	10	3
1898.....	76.7	100	55	3.83	0	6	18	10	3
1899.....	78.1	102	51	3.09	0	6	16	11	4
1900.....	80.4	104	52	2.74	0	12	19	10	2
1901.....	75.5	101	50	5.12	0	7	12	9	10
1902.....	75.6	103	45	2.48	0	8	16	10	5
1903.....	75.5	100	49	3.27	0	8	15	11	5
1904.....	75.2	100	45	2.64	0	9	15	8	8
1905.....	75.7	99	42	3.82	0	10	16	8	7
1906.....	77.4	99	45	4.37	0	10	13	9	9
1907.....	74.8	99	48	4.27	0	6	15	7	9
1908.....	76.3	104	49	2.79	0	7	16	8	7
1909.....	76.9	104	45	2.60	0	6	19	8	4
1910.....	74.0	100	46	2.72	0	10	18	7	6
1911.....	76.2	106	45	4.03	0	13	13	7	11
1912.....	73.7	98	43	4.71	0	7	14	8	9
1913.....	78.0	103	44	2.81	0	12	16	9	6
1914.....	76.0	100	49	5.94	0	14	13	8	10
1915.....	71.3	100	42	6.29	0	9	9	10	12
1916.....	77.0	101	47	4.25	0	8	14	10	7
1917.....	73.9	100	42	3.49	0	7	16	8	7
1918.....	80 2	111	50	3.18	0	8	17	9	5
1919	75.0	104	47	3.49	0	13	17	8	6
1920	73.4	98	37	5.80	0	10	10	10	11
1921	76.0	101	48	5.28	0	6	16	9	6
1922	75.2	101	44	2.43	0	12	16	9	6
1923.....	75.4	99	43	6.03	0	12	13	10	8
1924	76.5	103	43	3.00	0	7	21	6	4
1925.....	76.5	106	44	1.47	0	5	21	7	3
1926	77.3	101	51	7.51	0	14	12	10	9
1927.....	71.1	97	43	2.88	0	8	16	8	7
1928.....	77.0	101	54	4.33	0	11	14	10	7
1929.....	74.0	100	37	2.06	0	6	19	7	5
1930	76 5	113	42	2.25	0	7	16	9	6
1931	74.9	102	45	6.36	0	12	18	9	9
1932.....	76.5	103	43	4.25	0	7	17	9	5
1933.....	74.7	99	51	3.30	0	8	10	6	15
1934.....	76.6	104	46	4.76	0	10	15	11	5
1935.....	77.0	105	42	4 22	0	9	16	9	6
1936.....	81.1	108	43	2.22	0	6	16	11	4
1937.....	78.0	100	53	3.63	0	9	15	10	6
1938	78.0	101	52	4.45	0	10	16	10	5
Period	75.8	113	37	3.71	0	9	16	9	6

49 year averages.

Climatological Data for August, 1938.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation in inches				Number of days				Prevailing direction of wind.	Observers
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																			
Beaver Dam	Ohio	441	...	79.5	+ 3.1	96	23†	59	19	32	2.99	−0.32	0.83	0	11	19	7	5	w.	Eldred G. Young.
Calhoun	McLean	437	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Bennett.
Earlington	Hopkins	420	44	79.8	+ 2.6	96	7†	60	13†	31	3.63	+0.40	1.52	0	10	21	8	2	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	.....	.....	.....	.....	.....	.....	.....	2.22	+0.17	0.59	0	12	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	...	.....	.....	.....	.....	.....	.....	.....	5.37	.....	1.25	0	13	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	21	78.6	+ 2.5	96	23	57	19	31	2.44	−1.02	0 60	0	9	20	11	0	s.	C. R. Lovell.
Henderson	Henderson	382	16	77.9	.....	97	23	58	13	31	3.32	+0.10	1.79	0	9	16	13	2	sw.	Frank Street.
Hopkinsville	Christian	524	42	79.4	+ 1.5	98	24	60	19	30	6.14	+2.60	1.53	0	12	23	8	0	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	79.0	.....	97	24	59	18	30	5.73	+0.15	1.30	0	7	24	6	1	s.	Blaine Malone.
Mayfield	Calloway	364	29	*79.5	+ 2.0	97a	23†	61a	19	28a	3.53	−0.18	1.48	0	7	19	11	1	s.	Mrs. Joe Payne.
Murray	Graves	412	12	80.4	+ 2.8	97	23†	63	18	30	2.79	−0.60	0.91	0	7	.....	.....	.....	s.	Pat W. Wear.
Owensboro	Daviess	420	41	77.4	+ 1.5	95	23	59	13	28	4.90	+1.46	2.17	0	10	17	6	8	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	.....	.....	.....	.....	.....	.....	.....	3.76	+0.66	1.18	0	11	.....	.....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	80.2	− 0.4	98	24	58	18	28	4.11	+0.37	0.92	0	12	17	13	1	.....	Joe Lagore.
Princeton	Caldwell	529	31	79.3	+ 2.0	96	23	62	19	28	4.55	+0.95	1.45	0	11	7	22	2	sw	Dr. W. L. Cash.
Ramsey, Lock 2 ‡	McLean	384	21	.....	.....	.....	.....	.....	.....	.....	2 47	−1.75	1.02	0	9	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	25	78.7	+ 1.7	96	23	59	19	28	8.43	+5.32	2.80	0	12	19	9	8	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	.....	.....	.....	.....	.....	.....	.....	3.71	+0.49	1.61	0	8	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	.....	.....	.....	.....	.....	.....	.....	4.75	+1.61	1.91	0	10	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	75.6	+ 1.1	91	14	57	13	29	4.55	+0.90	1.41	0	12	15	12	4	sw.	C. E. Barret.
Bowling Green	Warren	500	42	79.8	+ 1.6	96	23	63	19	30	5.79	+2.16	2.40	0	10	19	9	3	s.	Mrs. Lillie G Causey.
Brownsville, Lock 6 ‡	Edmonson	410	21	.....	.....	.....	.....	.....	.....	.....	6.81	+2.56	3.07	0	10	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	47	.....	.....	.....	.....	.....	.....	.....	7.03	+2.81	2 05	0	12	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	.....	.....	.....	.....	.....	.....	.....	5.04	+1.22	2.29	0	4	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 86	Campbell	489	12	.....	.....	.....	.....	.....	.....	.....	4.68	+1.04	1.18	0	13	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	14	75.5	.....	93	7†	55	26†	34	6.12	+2.43	2.05	0	12	16	14	2	sw.	R. P. Coldirou.
Dix Dam, Burgin	Mercer	770	14	*78.0	+ 1.4	96a	7†	58	20	30a	4.27	+0.61	1.10	0	12	11	18	1	s.	.....
Eadsville	Wayne	622	...	.....	.....	.....	.....	.....	.....	.....	4.71	.....	2.00	0	8	.....	.....	.....	.....	Kentucky Utilities Co.
Eubank	Pulaski	1177	43	.....	.....	.....	.....	.....	.....	.....	6 65	+2.37	2.31	0	7	.....	.....	.....	.....	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	77.8	+ 2.6	98	9	58	26	32	4.93	+1.23	1.56	0	12	15	10	6	w.	Lockmaster.
Gest, Lock 3	Henry	490	28	.....	.....	.....	.....	.....	.....	.....	8 83	+0.27	1.20	0	10	.....	.....	.....	.....	Lockmaster.
Grant, Dam 33	Boone	506	13	.....	.....	.....	.....	.....	.....	.....	4.27	+0.08	1.27	0	11	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	45	77.6	+ 2 4	96	8	56	19†	34	5.05	+0.56	1.57	0	10	4	5	22	s.	Mrs. Bettie K. H. Alcorn
High Bridge, Lock 7	Jessamine	544	36	.....	.....	.....	.....	.....	.....	.....	3.82	+0.01	1.25	0	12	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	40	77.8	+ 1.9	92	24	62	19†	27	3.21	−0.29	1.43	0	9	17	10	4	sw.	W. J. Piggot.
Lancaster	Garrard	1032	12	.....	.....	.....	.....	.....	.....	.....	4.19	+0.16	2.00	0	11	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	42	78.6	+ 3.0	94	6†	59	13	32	5.90	+1.58	1.75	0	7	13	16	2	sw.	H. H. Willis.
Lexington	Fayette	989	54	77.4	+ 2.9	96	8	58	29	32	3.70	+0.25	1.12	0	12	.....	.....	.....	.....	U. S. Weather Bureau.
Little Hickman, Lock 8¶	Jessamine	560	28	.....	.....	.....	.....	.....	.....	.....	4.78	+0.74	1.62	0	8	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	.....	.....	.....	.....	.....	.....	.....	3.49	−0.29	1.15	0	5	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	78.4	+ 1.4	93	9	64	18	25	3.79	+0.37	1.98	0	11	13	13	5	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	...	78.4	.....	95	9	59	13	32	5.88	.....	1.68	0	11	.....	.....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	.....	8	76.4	.....	94	7†	55	19	34	7.73	.....	3.12	0	9	21	4	6	sw	Ivan J. Ellsworth.
Monticello	Wayne	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. O. Cooper
Munfordville	Hart	600	9	.....	.....	.....	.....	.....	.....	.....	8.66	.....	1.95	0	10	16	9	6	.....	Mrs. M. W. Price.
St. Joun	Hardin	777	42	77.7	+ 2.8	96	9	58	13	32	5.91	+1.58	2.89	0	5	25	6	2	.....	Sisters of Loretio.
Salvisa, Lock 6¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	7.10	+3.56	2.50	0	13	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	43	76.0	+ 0.8	93	6†	57	13†	30	5.14	+1.45	1.88	0	13	13	1	17	s.	Willis S Ratta,
Shepherdsville	Bullitt	500	1	.....	.....	.....	.....	.....	.....	.....	1.85	.....	0.75	0	8	21	5	5	sw.	A. McLeod.
Smith's Grove	Warren	607	...	78.1	.....	96	23	59	29†	34	7.57	.....	1.94	0	13	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	75.5	.....	91	7	56	19	29	7.66	.....	1.44	0	12	.....	.....	.....	.....	Airway Station.
Tyrone, Lock 5¶	Anderson	524	20	.....	.....	.....	.....	.....	.....	.....	8.94	−0.02	1.20	0	10	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	35	78.8	+ 4.5	97	8	59	18†	34	3.87	−0.16	2 30	0	8	25	3	3	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	21	.....	.....	.....	.....	.....	.....	.....	7.06	+3.23	3.76	0	12	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	7	.....	.....	.....	.....	.....	.....	.....	5.29	.....	1.10	0	10	18	10	8	sw.	W. A. Worthington.
Ashland	Boyd	534	21	77.2	+ 2.4	95	14	57	28†	32	3.01	−0.76	0.60	0	9	18	8	5	sw.	Lockmaster.
Berea	Madison	1070	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	.....	.....	4.85	+0.75	1.05	0	11	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1410	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	20	.....	.....	.....	.....	.....	.....	.....	1.83	−2.57	0.72	0	4	.....	.....	.....	.....	P. H. Kehoe.
Falmouth	Pendleton	600	49	.....	.....	.....	.....	.....	.....	.....	2.52	−1.46	0.52	0	13	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	31	77.0	+ 3.7	97	6	54	30	37	5.66	+1.22	1.50	0	13	10	12	9	w.	Mrs. R. F. Stamper.
Flemingsburg	Fleming	870	13	.....	.....	.....	.....	.....	.....	.....	8.14	−1.72	0.71	0	9	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	.....	.....	.....	.....	.....	.....	.....	2 58	−1.76	0.77	0	12	.....	.....	.....	.....	Lockmaster.
Greenup, Dam 30	Greenup	540	18	.....	.....	.....	.....	.....	.....	.....	2.95	−0.54	0.96	0	8	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	14	.....	.....	.....	.....	.....	.....	.....	3.87	−0.14	0.77	0	11	.....	.....	.....	.....	Chas O. Hurig.
Heidelberg, Lock 14	Lee	663	3	77.4	.....	95	7	56	30	33	5.73	+1.87	2.07	0	11	7	13	11	sw.	Lockmaster.
Jackson	Breathitt	776	14	.....	.....	.....	.....	.....	.....	.....	6.10	.....	3.80	0	7	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	12	.....	.....	.....	.....	.....	.....	.....	3.94	+0.10	0.82	0	13	.....	.....	.....	.....	R. J Howard,
Louisa	Lawrence	584	35	.....	.....	.....	.....	.....	.....	.....	6.55	+2.89	1.90	0	12	.....	.....	.....	.....	JacobWorkman
Maysville, Dam 33	Mason	524	40	77.5	+ 2.3	94	9†	57	28	31	3 69	−0.21	0.68	0	11	11	16	4	s.	Lockmaster.
Middlesboro	Bell	1126	39	*76.8	+ 2.6	96b	24	59b	19	32b	4.39	−0.17	1.06	0	9	22	9	0	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	.....	1	.....	.....	.....	.....	.....	.....	.....	4.40	.....	1.05	0	8	.....	.....	.....	.....	Joe L. Gay.
Onconta, Dam 35¶	Campbell	497	16	.....	.....	.....	.....	.....	.....	.....	1.79	−2.56	0.64	0	11	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	.....	.....	.....	.....	.....	.....	.....	5.32	.....	1.42	0	10	.....	.....	.....	.....	Manuel Robinson.
Pikeville	Pike	638	2	78.8	.....	96	14	60	26†	30	5.42	+1.09	1.89	0	13	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	79.6	.....	98	7	56	26	40	4.23	.....	0.95	0	14	19	8	4	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	75.1	+ 0.5	101	9	56	26†	33	6.58	+2.07	2.72	0	11	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	.....	.....	.....	.....	.....	.....	.....	4.92	−0.28	1.30	0	11	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	41	78.1	+ 2.6	94	9	62	13†	27	4.22	+0.26	1.20	0	9	17	7	7	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	.....	.....	.....	.....	.....	.....	.....	3.47	−0.55	0.91	0	14	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	526	21	.....	.....	.....	.....	.....	.....	.....	3.53	+0.05	1.06	0	8	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	41	78.8	+ 2.7	96	14	58	19	37	5.28	+0.70	1.98	0	12	16	9	6	.....	Wadely West.
Willow, Lock 13	Lee	646	18	.....	.....	.....	.....	.....	.....	.....	5.40	+1.64	2.65	0	8	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	...	75.6	.....	90	6†	52	26	33	2.95	.....	0 83	0	10	.....	.....	.....	.....	Airway Station.
State averages and extremes	.....	.....	...	78.0	+ 2.2	101	9	52	26	40	4.25	+0.74	3.30	0	10	16	10	5	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.
* * Precipitation by U. S. Engineers.

§+10.00 ‡+10.10

Daily Precipitation for August, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam.....G.	.02	.02			.62									.07	.11	.24	.47						.38			.83		.20	.03			2.99
Calhoun.....G.																																
Earlington ‖.....G.	1.62	.65		.03			.67		.05						.23	.23	.06											.18		.14		
Fords Ferry Dam 50‖.....O.	.59	.01			.16		.52		.09						.04	.48	.01	.03										.03		.20	.05	8.65
Gilbertsville.....T.																																2.22
Greenville.....G.	.08	.19		.60		.35	.16				T.			.10		.25											.44	.28				
Henderson.....O.	.03	.05			.28	1.79	T.	.06							.11	.81	.09											.08				2.44
Hopkinsville‖.....C.	1.53	.04	1.20	1.35		.08		.10			.63			.68	.04		.10													.05	.49	3.32
Lovelaceville.....M.	.40		.60			.15	.70				.18				.40																6.14
Mayfield.....M.	.23					.40		.18			.74			T	.45																	8.73
																																3.53
Murray.....T.		.45				.06					.22		.24		.16																	
Owensboro‖.....O.	.29	2.17	T.		.06	1.65	T.		.23	.10	T.				T.	.14	.20	.01									.75	.91				2.79
Owensboro, Dam 46‖.....O.	1.01	.77	T.		.22	1.18	.02	.05		.16	T.					.12	T.	.12										T		.11		4.90
Paducah‖.....O.	.77	.08	T.		.49			.72		.07		.20	.02		T.	T.	.28	.10									.01	.10				3.76
Princeton.....G.	1.45		.12	T.		.67	.06	.78		T.		.01		T.	1.82	.01	.10											.92	.28	T		4.11
Rumsey, Lock No. 2‖.....G.	1.02	.08			.14	.42	.89		.05							.18		.04										.01	.18			4.55
Russellville‖.....O.	.57		2.80	.28	.88					.08	1.50				1.61	.23		.89					.01				.58	.10				2.47
Uniontown, Dam 49‖.....O.	.61				1.61	.03	.38		.04							.37		.09											.63			8.43
																																3.71
Central Division																																
Addison, Dam 45.‖.....O.	.54		.52	T	1.91		.70		T.		.02	.34			T.	.01		.07										.62	T.	.02			
Anchorage.....O.	.67			.25	.48	.55	.03			.02	.09						1.41					.27		.57		.16	.05		T.			4.75
Bowling Green ‖.....G.	2.40		.10	.20	.50						1.30				.03		.02	.12				.10					1.02				T.	4.55
Brownsville, Lock No. 6‖.....G.	3.07	.13	1.30		.88						.51				.12			.62				.01					.12		.05			5.79
Burnside‖.....C.	2.05	.46	.82	.57	.05			T.			.80				.05		T	1.55				.52		.08			.06		.02			6.81
Carrollton Lock No. 11.....K.	1.15	.70			2.29						.80																					7.03
Cold Spring, Dam 36‖.....O.	1.18	.44	.33	.18	.64	.10	.46			.02	.08	.02				.03						1.05		.16	T.							5.04
Danville‖.....K.	.54	.08	.76	T.	.17			.05		1.00		2.05					T.	.40				.02		.06	.85		.14					4.68
Dix Dam, Burgin.....K.	.06	.11	.20	.47					.73		.88						.16				.14		.03	1.10		.21				.18	6.12
Eadsville.....C.	2.00	.26	.48	.53				.31				.82						.30									.06					4.27
																																4.71
Eubank.....C.	2.31	.73		.70					.35			1.38						.83							.35							
Frankfort, Lock No. 4‖.....K.	.45	.61		.02	.89			.08		.01	.05	1.56					T.	1.05				.06		.11	.01							6.65
Gest, Lock No. 3‖.....K.	1.20	.39	.25		.54		.19				.25							.63				.06		.20	.12							4.93
Grant, Dam 33‖.....O.	1.27	.68		.15	.65	.23	.69				.22					.12	.06					.18		.12								3.83
Greensburg‖.....G.	.77	.02	.33	.85								1.57			.10		.09	.80				.54			T.							4.27
High Bridge, Lock No. 7‖.....K.	.34	.11	.10	.04	.48		T.	.04				1.25						.30				.07		.04	.86		.19					5.06
Irvington.....O.	.09		.26		1.43	.35	.02	.16			.18				T.	.68							T.			T.	.04	T.			T.	3.82
Lancaster‖.....K.	.19	.10	.19	.48				.34	.03							.26						.08	2.00		.25						27	5.21
Leitchfield ‖.....G.	2.00	.04			1.33							.50				.11	1.30								T.		.02		T.			4.19
Lexington ***.....K.	.46	.04		.22			.27				.76				T		1.12				.53	T	.12	.02	.15						.01	5.30
																																3.70
Little Hickman, Lock No. 8 ‖.....K.	1.16		T.	.22	.48						1.52						T.	.14				T.		.25	.83		.18					4.78
Lockport, Lock No. 2‖.....K.	1.15				.26		1.12				.20							.76														8.49
Louisville***	.18			1.72	.26	.07		.56	T.		.11						.18					.48		.17		.01	T.		T.		.05	3.79
Do. Bowman Field.....O.	1.32	.51		.27	1.63		.09		.30		.06						.43						.05	.80		.87						5.83
Mammoth Cave‖.....G.	2.81	.04	T.	T.	3.12							.59			.81		.03	.78						T.			.03		.02			7.73
Monticello ‖.....C.	1.95	.58	.60	.17				1.56					.45				.75				.36					.75	1.50					8.66
Munfordville ‖.....G.																																
St. John ‖.....S.	2.89	T.	.08		2.84							.50			.10	T.						T.										5.91
Salvisa, Lock No 5 ‖.....K.	.60	.15	.08	.22	2.50				.45			.10	1.30					.35				.30			.95		.10					7.10
Shelbyville‖.....S.	1.38	.80	.04	T.	.58		.03	T			T.	.05				.01	1.04					.02		.20	1.20	.18	.11					5.14
Shepherdsville.....S.																																
Smith's Grove.....G.	1.94	.24	.36	.12	1.43				T.		.89	.82			.15	.10	.67	.47			T.	T.										
Stearns.....C.	1.31	1.03	1.44								.10	.45			T.	.03	.65	.40								.22	.26				7.57
Tyrone, Lock No. 5‖.....K.	.45	T.	T.		.90			.31		.45	.28	.08			.44		.65						.25				.34			1.03	7.56
Williamstown ‖.....L.	2.30	.15			.30		.07				.50					.10		.10				.12		.14	1.20		.15					3.94
Woodbury, Lock No. 4‖.....G.	3.76	.02	.16	.12	.54						.09				.19		.98					.05		.03	.43	T.						3.57
																																7.06
Eastern Division																																
Annville ‖.....C.	.88	.90	.34	.22				T.		.12		.80						.16				.65		.12	1.10	T.						5.29
Ashland ‖.....O.	.23	.43		.60	.56			.07	.01			.23						.48				.40										3.01
Berea.....K.																																
College Hill, Lock No. 11‖.....K.	1.05	.10	.12	.17				.03				.74						.94				.97		.20	.35						.20	4.85
Cumberland.....L.		T.																														
Cynthiana ‖.....L.								.12	T.		.08							.41				.72		T.								
Falmouth‖.....L.	.52	.13		.42	.20	.09	.18			.03		.29				.07	.02	.24				.29		.04								1.33
Farmers ‖.....L.	.16	.48	.14	.70		.13		.01		1.07		.23					.13	1.50				.80		.15	.16							2.52
Flemingsburg‖.....L.	.71	.04	T.		.17	T.				.11	T.	.71	T.			.11	.19	T					.48	T.	.62	T.						5.66
Ford, Lock No. 10 ‖.....K.	.77	.13	.05	T.	.10				.06	.01	T	.47			.04		T.	.07				.46		.02	.40		T.	T.				3.14
																																2.58
Greenup, Dam 30‖.....O.	.02	.09		.16	.30			.96				.73						.02				.67										
Hazard ‖.....K.		.77		.10	.30			.15	.77		.10	.40							.40			.15			.63		.10					2.95
Richmond‖.....K.	.82	.74	.24	T.	T.			.01	.12	.41		.55						2.07				.32		.15	.36							3.87
Jackson ‖.....K.		.67		.05	T.	.05			.47			1.28						3.30				.38			T.							6.79
Jenkins‖.....B.		.32	.34	.52	.06			.35		.42		.55			.05	.10	.25					.16		.38	.14							6.10
Louisa‖.....B.		.62	.40	.30	1.90				.30			.55	.08				.10	.55				1.85	.35	.05								3.94
Maysville, Dam 33‖.....O.	.46	.03		.56	.47			.68		.06		.47					.10	.24				.45		.17								6.55
Middlesboro.....C.	.74	1.06	.46	.64	.20			.31	.44															.03	.45							3.69
Mount Sterling.....L.																																4.39
Oneida ‖.....K.			1.05	.05				.70				1.00						.80					.10	.20	.50							4.40
Oneonta Dam 35‖.....O.	.64	.08	T.	.13	.12		08				.03	.02				.01	.28					.42		.03								1.79
Paintsville ‖.....B.		.81	.26	1.22	.13				T.	.02		1.42					.44					.88		.04	.10							5.32
Pikeville.....K.	.25	.79	.18	.74	.32			.07	.01		1.89	.02				.33						.36		.42	.04	T.						5.42
Pippapass.....K.	.62	.95	.40	.27	.14			.27	.10		.33	.05				.57	.12					.29	.02	.10								4.23
Quicksand‖.....K.	.36	.20	.51		.25				.60		.02	1.03					2.72						.56	.19	.14							6.58
Ravenna, Lock No. 12‖.....K.	1.20	.54	.04	.05	.12				T.	.06		.56					.88					.76		.37	.35							4.92
Valley View, Lock No. 6‖.....K.	.15	.25		.85								1.20					.40					.20		.25	.90		.02					4.22
Vanceburg, Dam No. 32 ‖.....O.	.62	.20	.04	.29	1.06					.14	.06	.39				.11	.05					.23		.19	.80				.03			3.47
Williamsburg‖.....C.		1.58	.31	.50	.84			.51	.23	.06		.48		T		.05	.44					.92					.06					3.53
Willow, Lock No. 13‖.....K.	2.65		.26					.27				.22					1.15					.27		.19	.39							5.28
Winchester.....K.	.82	.04	.08	.07				T.	.08		.57				T.	.13					.83		.18		.15							5.40
																																2.95

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

† Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for August, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	88	91	88	92	92	94	94	94	96	94	93	88	92	94	89	90	85	85	86	91	92	94	96	96	89	94	90	78	86	88	95	90.7
	Minimum	69	68	70	74	70	72	68	71	70	72	76	69	69	71	70	72	72	69	59	60	66	67	72	73	69	62	68	66	64	70	64	68.3
Calhoun	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Earlington	Maximum	87	88	86	92	92	93	96	94	94	95	90	87	91	94	90	89	88	86	89	91	92	94	95	96	90	95	89	83	88	90	95	90.8
	Minimum	68	67	72	75	70	73	65	72	70	74	77	68	69	72	71	72	74	60	60	61	70	68	75	73	70	66	69	64	67	67	67	68.9
Greenville	Maximum	89	90	87	90	93	93	94	95	95	93	92	85	93	93	93	87	85	85	88	92	92	95	96	95	94	94	90	80	85	91	94	90.9
	Minimum	67	66	68	72	67	69	64	69	67	70	74	68	68	68	68	70	72	61	57	58	64	66	70	68	68	62	66	62	64	67	62	66.2
Henderson	Maximum	85	89	82	90	88	87	90	95	94	88	90	88	89	90	81	80	79	83	83	88	90	94	97	95	89	92	83	74	84	90	96	87.8
	Minimum	71	67	71	74	69	69	67	73	69	76	76	65	58	71	71	70	71	59	59	62	70	66	74	72	66	65	67	63	64	64	69	68.0
Hopkinsville	Maximum	87	90	86	91	92	97	94	96	96	93	93	85	96	92	90	92	88	85	87	89	93	95	96	98	90	95	91	83	88	90	94	91.3
	Minimum	67	68	70	67	67	70	67	71	69	72	74	69	68	70	69	71	72	62	60	61	66	68	71	71	69	66	69	64	65	66	63	67.6
Lovelaceville	Maximum	87	89	86	89	91	91	93	93	93	91	89	85	91	91	85	86	85	85	87	91	89	93	96	97	91	96	91	83	89	91	91	89.5
	Minimum	68	67	70	72	72	72	68	72	71	71	74	68	64	70	70	73	73	59	60	63	67	69	70	67	69	66	69	63	67	66	70	68.4
Mayfield	Maximum	84	88	87	90	91	92	95	95	94	91	91	87	91	90	85	87	88	..	86	91	92	95	97	97	87	97	89	82	81	89	92	[a]90.0
	Minimum	70	68	70	72	71	70	68	73	72	73	74	68	65	71	65	73	72	..	61	63	68	72	71	70	69	69	64	66	65	69	69	[a]69.0
Murray	Maximum	85	86	86	90	92	93	94	95	93	91	91	90	89	89	85	86	88	88	87	92	93	96	97	97	95	98	90	76	78	88	93	89.9
	Minimum	72	71	72	74	78	71	70	76	78	71	72	68	67	71	71	74	70	63	65	70	69	72	75	75	72	68	70	66	68	68	70	71.0
Owensboro	Maximum	85	87	87	90	88	91	89	94	91	89	84	84	88	91	88	85	76	84	85	88	89	91	95	93	90	91	85	83	81	87	92	87.5
	Minimum	67	67	69	72	67	71	67	72	70	73	74	66	59	70	70	70	71	62	60	61	61	65	70	70	66	63	67	65	63	63	64	66.9
Paducah	Maximum	89	90	88	91	92	93	94	95	94	92	91	87	91	90	85	88	88	85	86	92	92	95	97	98	93	97	91	86	91	93	91	90.9
	Minimum	70	70	72	74	73	72	70	73	70	74	76	66	64	74	71	74	70	58	60	64	69	70	74	70	70	70	69	63	67	67	71	69.5
Princeton	Maximum	88	88	86	92	92	93	94	92	93	88	88	86	90	90	85	87	82	85	85	91	91	93	96	98	88	94	89	79	84	88	93	89.2
	Miuimum	67	68	72	74	71	71	68	73	71	74	76	70	65	70	72	73	72	63	62	63	63	71	73	71	68	73	65	67	67	67	67	69.4
Russellville§§	Maximum	87	88	82	91	90	93	92	93	94	94	92	85	83	93	87	89	87	81	84	90	94	93	96	94	88	95	89	80	84	85	93	89.2
	Minimum	66	68	69	69	67	71	69	79	72	72	73	70	62	70	69	70	72	61	59	66	65	67	71	73	69	64	67	68	65	67	64	68.2
Central Division.																																	
Anchorage	Maximum	80	83	86	89	87	90	88	90	90	90	86	52	86	91	87	89	84	82	84	85	87	87	85	85	81	82	81	82	83	86	88	85.7
	Minimum	67	67	70	70	67	67	68	68	70	71	75	64	57	67	70	74	69	68	59	58	64	66	65	68	62	58	64	60	62	60	60	65.6
Bowling Green	Maximum	85	82	83	93	91	94	94	95	94	94	92	88	91	92	89	92	88	84	85	91	92	93	96	96	89	95	89	80	79	87	93	89.9
	Minimum	68	69	70	72	68	73	72	73	75	74	75	71	65	72	71	74	74	66	63	64	65	69	72	75	72	65	67	67	65	70	66	69.7
Danville	Maximum	80	80	87	90	88	91	93	92	92	91	90	84	90	93	92	90	86	81	83	88	91	90	87	89	83	89	85	82	84	86	86	87.5
	Minimum	66	65	68	70	67	67	68	67	68	70	69	65	56	67	67	68	71	59	56	56	59	62	60	70	63	55	62	58	59	55	59	63.5
Dix Dam	Maximum	82	85	87	91	89	92	96	93	94	90	90	85	89	84	92	90	87	87	85	89	92	90	87	90	88	90	87	89	86	..	86	87	90	[a]88.7
	Minimum	69	69	72	74	70	73	72	73	72	72	74	68	60	69	72	73	75	63	59	58	63	64	66	70	66	69	65	..	60	60	62	[a]67.4
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	81	89	90	84	91	96	95	97	98	93	89	89	91	96	92	90	85	86	87	91	92	94	89	89	88	89	88	85	88	90	89	90.0
	Minimum	68	66	70	72	70	68	69	68	73	70	74	65	60	66	71	73	69	61	61	59	62	65	63	70	65	58	64	60	59	59	60	65.7
Greensburg	Maximum	89	89	87	92	90	93	95	96	93	94	91	88	93	95	92	91	87	84	86	91	93	92	94	95	88	94	90	83	87	90	92	90.8
	Minimum	66	63	65	69	66	67	68	68	68	69	68	67	58	66	67	70	70	61	56	56	60	63	65	69	65	59	65	62	58	58	59	64.3
Irvington	Maximum	85	86	86	90	87	91	90	91	91	90	87	85	86	90	88	87	82	82	84	86	89	89	91	92	88	88	88	82	79	83	87	90	87.1
	Minimum	68	69	72	74	69	72	70	72	72	75	76	67	60	72	72	71	73	64	62	63	63	68	72	74	67	62	69	66	62	64	63	68.5
Leitchfield	Maximum	87	88	87	91	89	94	94	93	95	92	90	84	90	91	89	89	84	82	87	90	93	92	93	93	87	93	86	79	86	89	91	89.4
	Minimum	67	68	69	72	68	72	71	72	73	73	74	65	59	71	70	73	71	64	60	60	67	67	72	73	67	61	67	65	63	62	62	67.7
Lexington	Maximum	82	87	88	93	89	95	94	96	95	94	87	86	92	95	94	92	85	83	88	90	90	92	86	87	84	89	86	85	88	91	90	89.4
	Minimum	67	67	70	70	69	70	70	70	73	71	73	62	59	70	71	71	67	60	59	59	64	64	65	68	62	60	61	61	58	59	64	65.6
Louisville	Maximum	84	88	87	91	87	92	93	89	93	91	85	83	89	92	88	88	82	83	86	88	89	88	89	87	83	88	82	83	86	88	90	87.5
	Minimum	68	70	74	69	68	78	72	74	75	78	74	66	65	74	73	77	70	64	65	65	68	70	64	72	64	66	66	66	64	67	66	69.3
Do. Bowman Field	Maximum	86	89	87	91	89	93	92	90	95	91	85	84	91	92	88	89	82	83	92	89	89	92	90	88	82	87	82	82	87	94	91	88.5
	Minimum	68	69	72	72	69	71	71	73	73	73	75	67	69	72	73	76	78	68	62	62	67	67	71	72	63	62	67	64	60	63	63	68.3
Mammoth Cave	Maximum	84	86	85	90	90	92	94	93	91	91	90	85	89	92	89	89	85	82	84	88	91	92	93	94	86	91	88	80	82	87	91	88.5
	Minimum	65	63	68	70	65	67	68	69	69	69	71	66	56	66	66	66	72	70	60	56	56	60	62	68	70	65	57	61	60	57	62	64.2
St. John	Maximum	86	89	87	92	89	93	94	95	96	94	90	86	89	92	89	87	85	82	85	88	82	91	92	95	89	91	87	83	84	88	94	89.2
	Minimum	66	66	69	72	67	70	70	69	71	71	74	65	58	69	69	73	73	67	59	59	63	60	69	70	65	59	67	63	59	61	60	66.2
Shelbyville	Maximum	83	89	88	92	87	93	92	91	93	91	85	85	84	91	90	89	89	82	86	88	90	90	85	87	83	85	84	82	86	88	89	87.7
	Minimum	66	64	69	69	66	67	69	68	70	71	72	63	57	66	68	72	68	60	58	58	62	62	63	68	60	57	63	61	58	58	59	64.8
Smith's Grove	Maximum	86	88	86	90	90	93	94	94	92	93	90	86	93	94	91	90	87	84	86	91	92	94	96	95	88	92	92	83	85	92	93	90.4
	Minimum	65	64	67	70	68	71	68	68	70	69	71	71	62	67	67	71	70	61	60	62	61	63	66	66	66	63	68	61	69	64	59	65.8
Stearns	Maximum	70	79	84	87	85	90	91	89	89	86	87	86	90	90	90	89	88	77	82	87	88	86	88	90	84	86	86	83	84	86	90	86.1
	Minimum	68	67	66	67	67	66	69	68	68	68	70	67	62	67	68	67	69	64	56	59	62	64	59	63	65	65	72	62	60	63	61	64.9
Williamstown	Maximum	85	90	92	94	88	96	95	97	93	95	91	90	92	96	95	93	90	90	91	93	94	94	90	88	88	90	90	88	90	92	94	91.8
	Minimum	67	67	72	72	68	69	67	70	74	71	71	62	61	66	71	71	74	59	61	59	63	65	65	65	72	62	60	63	61	59	60	66.2
Eastern Division.																																	
Ashland	Maximum	80	86	84	87	89	92	92	94	93	94	86	87	88	95	94	94	91	82	85	89	91	87	87	87	82	87	86	85	87	89	89	88.4
	Minimum	71	69	71	70	68	69	72	70	69	72	75	70	62	64	70	72	74	62	61	60	62	65	66	66	63	58	61	57	58	57	59	65.9
Berea	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	85	88	88	93	91	97	95	95	92	94	87	87	93	96	95	93	87	85	90	92	93	92	90	89	87	88	88	85	90	90	90	90.5
	Minimum	69	66	66	70	70	70	69	69	69	66	67	66	59	59	62	62	76	59	58	56	51	66	63	67	63	55	61	57	66	54	57	63.5
Heidelberg	Maximum	81	86	88	92	90	93	95	93	89	93	91	87	92	94	94	92	88	81	86	90	90	90	87	91	84	86	87	85	86	89	89	89.0
	Minimum	70	69	70	70	70	67	71	70	70	67	71	69	63	61	67	67	69	65	68	66	62	64	64	67	66	67	65	62	62	66	61	65.7
Maysville	Maximum	84	87	85	93	89	93	93	94	92	88	87	89	94	93	92	87	85	87	90	91	90	87	85	87	82	88	83	83	87	89	89	88.7
	Minimum	70	67	70	78	71	70	72	72	73	70	75	65	64	64	72	71	75	60	61	62	62	67	65	68	61	59	62	57	60	58	60	66.8
Middlesboro	Maximum	83	80	82	81	89	89	90	89	90	..	90	..	92	91	89	91	92	82	88	89	88	92	86	96	89	92	90	85	84	90	92	[b]88.3
	Minimum	69	68	68	67	66	68	68	69	67	..	69	..	65	66	69	67	68	63	59	60	61	66	63	64	66	62	66	62	62	61	63	[b]65.4
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	93	85	87	91	90	94	95	91	94	95	91	91	92	96	95	95	92	84	93	91	93	90	90	90	86	86	89	87	87	90	90	90.7
	Minimum	68	70	69	69	65	70	71	70	71	72	71	70	67	63	70	70	70	67	69	61	61	67	67	67	60	66	62	62	62	60	60	66.9
Pippapass	Maximum	90	87	91	98	93	95	98	95	91	93	94	95	97	97	98	98	84	94	93	92	91	97	93	93	96	94	94	92	94	95	93	93.9
	Minimum	67	69	68	67	65	67	69	67	70	69	71	69	63	61	67	67	69	65	68	66	63	65	62	66	66	66	64	61	61	67	58	65.3
Quicksand	Maximum	82	84	99	91	76	98	95	95	101	93	90	88	88	94	94	93	87	82	90	79	79	79	82	75	84	89	88	86	86	88	90	86.2
	Minimum	68	67	69	68	66	67	69	68	68	69	68	65	61	63	68	68	68	62	58	57	62	64	63	65	65	56	66	58	56	60	59	64.0
Richmond	Maximum	78	82	86	90	85	90	92	92	94	92	90	85	85	92	90	90	87	88	87	88	90	90	86	90	85	89	88	87	85	90	88	88.2
	Minimum	70	68	70	72	70	72	72	73	72	74	68	62	70	72	72	73	72	62	64	65	66	66	72	66	62	75	84	69	68	66	68	68.0
Williamsburg	Maximum	79	83	89	90	87	93	93	93	93	94	94	90	93	96	94	92	91	87	95	91	93	92	92	94	87	94	90	87	85	92	95	90.9
	Minimum	69	69	68	70	70	68	70	71	72	69	70	70	66	69	69	69	70	66	58	62	63	63	61	63	67	64	69	65	63	63	61	66.6
Winchester	Maximum	77	84	88	88	85	90	90	90	89	86	82	87	89	88	88	84	80	84	86	88	87	86	85	80	85	84	84	84	85	88	85	85.6
	Minimum	68	68	70	70	69	70	70	70	72	70	74	66	58	68	71	71	73	60	59	60	61	62	64	70	65	52	66	60	58	58	63	65.7

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
[a,b,c] etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 8-26-38-1100

1.05 NE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., SEPTEMBER, 1938 No. 9

GENERAL SUMMARY.

Heavy to excessive rains in the south-central counties in the first decade damaged crops and eroded fields, otherwise the weather of that period was dry, warm and quite favorable for tobacco harvest, haymaking, and corn cutting. This weather in the northern and western counties was the continuation of a dry spell of three weeks duration that commenced in the preceding month. Pastures began to deteriorate and late potatoes felt the need of rain before it ended. In the next ten days almost daily rains, which were often heavy, visited most of the State. This long humid period interfered seriously with the curing of late tobacco, recently housed, and caused darkening of color even where curing was nearly complete. On account of the earliness of the crop, the late cuttings were largely housed in the first part of this wet spell. Attempts to put up alfalfa and soybeans resulted in almost complete loss. Corn in shock and occasional ears on standing corn were damaged by mold. Seeding of tobacco stubble to rye as a cover crop was delayed.

The rain helped pastures and late potatoes, but damaged cannery tomatoes. The additional moisture assisted fall plowing and conditioning of soil for seeding in northern and western districts. In the south-central counties, however, the ground became so wet as to prevent this work until some days after the rains ceased. Dry weather in the last third of the month, with temperatures above normal for a week, improved the condition of drying tobacco and of shocked corn. It also made possible the harvesting of such hay as remained out, and permitted timely progress with fall seeding. Decidedly cool weather in the third week slowed the growth of late potatoes and affected pastures, but the high temperature of the last week assisted greatly in renewing their progress. Relatively dry weather throughout the month in most of the cotton district favored ripening and picking. On the average the staple crops matured and were harvested about two weeks earlier than the usual date.

TEMPERATURE.

Temperatures above normal prevailed in the periods 4-14th, and 23d-29th. Some very warm weather for the season, with maxima between 90° and 100°, occurred from the 7th to 10th. Temperatures were unseasonably low from the 15th to 22d, ranging from 10° to 15° below the seasonal average on several days. The deficiency in the cool period balanced the accumulated excess of temperature in the warm weather, so that the average for the month was near normal. Extremes for the State ranged between 101° at Henderson on the 8th and 37° at Mammoth Cave on the 20th.

PRECIPITATION.

Precipitation averaged near normal, but varied greatly in distribution. From 5.0 to 8.0 inches occurred in the south-central counties and some northeastern districts. The western division, some central counties, and most eastern districts received from 2.0 to 3.5 inches. A few extreme western and southeastern stations reported less than 2.0 inches. For the State amounts ranged between 1.0 inch at Carrollton and 8.98 inches at Smiths Grove. Scattered showers occurred on the 1st and in the periods 8-9th and 18th-23d. The rains were more general and usually moderate to heavy on the 10-11th and from the 13th to 16th. Twenty-four hour falls of 1.0 to 2.5 inches were reported from many south-central stations in the period 11-15th. Days with thunderstorms were: 1, 7, 8, 9, 10, 11, 12, 13.

MISCELLANEOUS.

Rivers.—Rains in the period 10-16th caused a slight rise in the Ohio and its upper tributaries, otherwise pool stages prevailed during the month.

Errata.

June, 1938, page 22: Berea, lowest temperature should be 50 on 14th; Heidelberg, greatest 24-hour precipitation should be 0.94; Pippapass, lowest temperature should be 50 on 16th; Williamsburg, greatest 24-hour precipitation should be 1.73. Page 24: Princeton, mean maximum should be 83.8.

July, 1938, page 26: Lovelaceville, lowest temperature should be 58 on 16th. Farmers, mean temperature should be 77.6; Heidelberg, greatest 24-hour precipitation should be 4.15 and at Maysville 6.75. Page 28: Farmers, mean minimum should be 67.0.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.00	30.20	20	29.63	14	6.8	23	e.	1	88	53	62	84
Cincinnati .....Ohio	30.02	30.25	25	29.56	14	6.3	21	sw.	14	89	63	70	60
Evansville..... Ind.	30.01	30.19	25	29.59	14	7.8	25	n.	8	82	50	58	74
Louisville .....Ky.	30.03	30.24	25	29.60	14	9.0	26	sw	12	83	57	63	69

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Precipitation .01 inch or more.	Number of days Clear.	Partly cloudy.	Cloudy.
1889.....	72.1	101	36	1.23	..	..	..	..	..
1890.....	67.0	95	36	2.71	..	..	..	..	..
1891.....	69.5	97	42	1.89	..	..	..	..	..
1892.....	68.5	93	38	2.68	..	..	..	..	..
1893.....	69.6	99	35	3.24	..	..	..	..	..
1894.....	71.7	98	37	2.71	..	..	..	..	..
1895.....	73.4	101	27	1.10	0	..	19	8	3
1896.....	68.6	100	30	3.77	0	3	14	9	7
1897.....	72.8	105	31	0.21	0	1	26	4	0
1898.....	73.4	103	42	4.36	0	1	17	8	5
1899.....	68.7	105	27	1.66	0	9	18	8	4
1900.....	74.6	102	35	2.25	0	5	15	9	6
1901.....	68.1	98	33	3.57	0	6	18	7	5
1902.....	67.3	97	29	4.01	0	6	13	7	10
1903.....	69.1	100	32	0.91	0	10	21	6	3
1904.....	71.1	99	34	2.58	0	4	15	7	8
1905.....	70.2	95	36	2.61	0	8	16	6	8
1906.....	73.0	95	45	6.15	0	6	11	7	12
1907.....	69.1	102	35	3.00	0	13	17	5	8
1908.....	71.6	101	30	1.03	0	6	18	8	4
1909.....	67.7	97	32	2.51	0	3	16	7	7
1910.....	71.8	99	38	4.41	0	6	14	8	8
1911.....	74.3	99	46	3.71	0	9	13	8	9
1912.....	71.0	103	33	2.80	0	10	18	6	6
1913.....	69.6	106	29	2.49	0	7	11	7	12
1914.....	67.8	97	36	2.96	0	9	18	6	6
1915.....	70.7	99	32	3.32	0	6	17	8	5
1916.....	67.2	98	32	3.48	0	7	20	5	5
1917.....	67.7	98	34	2.56	0	6	18	7	5
1918.....	62.8	92	30	2.94	0	5	15	6	9
1919.....	71.5	102	40	1.69	0	8	20	6	4
1920.....	70.8	96	38	3.30	0	4	14	8	8
1921.....	75.5	99	45	5.37	0	9	10	11	9
1922.....	72.7	103	39	2.22	0	13	20	6	4
1923.....	66.8	94	30	2.87	0	5	15	7	8
1924.....	65.3	97	35	4.49	0	8	14	7	9
1925.....	77.2	110	45	2.83	0	10	15	7	8
1926.....	73.5	98	40	3.78	0	9	14	8	8
1927.....	72.2	103	30	2.87	0	6	16	9	5
1928.....	65.5	99	24	0.81	0	3	20	6	4
1929.....	69.5	97	35	4.69	0	11	13	8	9
1930.....	72.6	101	38	2.46	0	8	13	9	8
1931.....	75.1	103	36	2.74	0	5	20	6	4
1932.....	69.5	103	34	3.66	0	8	16	6	8
1933.....	74.3	98	40	5.03	0	9	17	6	7
1934.....	69.2	95	39	4.82	0	10	13	9	8
1935.....	68.3	99	31	2.75	0	5	21	4	5
1936.....	74.4	101	41	3.57	0	7	12	10	8
1937.....	67.8	98	29	1.84	0	5	16	7	7
1938.....	70.3	101	37	3.52	0	8	14	9	7
Period	70.5	110	27	2.96	0	7	16	7	7

†60 year averages.

Climatological Data for September, 1938.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	26	71.2	+ 0.3	96	8	41	20	34	5.89	+3.21	2.53	0	6	15	7	8	s.	Eldred G. Young.
Calhoun	Mc'ean	437	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Bennett.
Earlington	Hopkins	420	44	72.2	+ 0.6	95	8‡	41	19	34	3.77	+0.90	1.76	0	10	18	6	6	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	.....	.....	.....	.....	.....	.....	.....	2.60	−2.08	1.09	0	7	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	21	*70.2	− 0.9	96*	8	39*	19†	36*	2.49	−0.08	1.00	0	7	15	13	2	s.	C. R. Lovell.
Hartford (near)	Ohio	540	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. Carson, Sr.
Henderson	Henderson	382	16	71.0	.....	101	8	40	19	32	2.12	−1.34	0 81	0	7	13	14	3	sw.	Frank T. Street, Jr.
Hopkinsville	Christian	524	42	70.7	− 1.5	97	10	39	20	36	1.87	−1.29	0.85	0	6	19	9	2	s.	W. K. Morris.
Lovelaceville	Ballard	445	9	70.0	− 1.0	96	9	39	19†	37	2.00	−2.21	0.70	0	6	19	9	2	s.	Blaine Malone.
Mayfield	Calloway	364	29	72.0	− 0.2	95	8‡	40	20	35	2.51	−0.44	1.68	0	4	20	10	0	s.	Mrs. Joe Payne.
Murray	Graves	412	12	72.6	+ 0.9	96	8	44	20	30	2.82	−1.46	1.28	0	3	.....	.....	.....	.....	Pat W. Wear.
Owensboro	Daviess	420	41	70.0	− 0.4	93	7†	41	19†	31	2.22	−1.02	0.72	0	6	20	3	7	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	.....	.....	.....	.....	.....	.....	.....	1.82	−1.71	0.60	0	5	.....	.....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	71.6	− 2.8	97	9	40	21	35	1.56	−1.71	1.18	0	5	17	10	3	.....	Joe Lagore.
Princeton	Caldwell	529	31	71.1	− 0.7	92	6‡	42	19†	33	2.04	−1.30	0.50	0	9	14	13	3	sw.	Dr. W. L. Cash.
Rumsey, Lock 2¶	McLean	384	21	.....	.....	.....	.....	.....	.....	.....	3.22	+0.07	0.94	0	8	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	25	69.6	− 2.3	94	7†	40	20†	39	7.65	+4.64	3.90	0	6	21	6	3	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	.....	.....	.....	.....	.....	.....	.....	3.70	−1.00	2.60	0	5	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	.....	.....	.....	.....	.....	.....	.....	5.81	+2.76	1.87	0	10	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	68.2	− 0.8	90	7	41	20†	31	5.52	+2.80	2.69	0	6	15	11	4	sw.	C. E. Barret.
Bowling Green	Warren	500	42	71.6	− 0.8	94	7†	45	20	32	7.05	+3.66	2.90	0	6	13	10	7	s.	Mrs. Lillie G Causey.
Brownsville, Lock 6¶	Edmonson	410	21	.....	.....	.....	.....	.....	.....	.....	5.37	+2.15	1.72	0	10	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	47	.....	.....	.....	.....	.....	.....	.....	7.51	+3.89	1.49	0	11	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	.....	.....	.....	.....	.....	.....	.....	1.00	−2 10	0.25	0	6	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	.....	.....	.....	.....	.....	.....	.....	3.32	−0.57	1.10	0	10	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	14	68.0	.....	92	6	38	20	36	2.10	−1.42	1.10	0	8	12	13	5	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	922	...	.....	.....	.....	.....	.....	.....	.....	6.88	.....	1 22	0	11	.....	.....	.....	.....	Kentucky Utilities Co.
Eadsville	Wayne	1177	43	.....	.....	.....	.....	.....	.....	.....	4.71	+1.21	2 70	0	5	12	9	8	s.	Joe Northcott.
Eubank	Pulaski	504	42	70.0	+ 0.5	95	6	42	20†	37	1.72	−1.04	0.45	0	8	12	10	8	w.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	490	28	.....	.....	.....	.....	.....	.....	.....	2.95	−0.19	0.78	0	8	.....	.....	.....	.....	Lockmaster.
Gest, Lock 3	Henry	760	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Turner.
Glasgow	Barren	506	13	.....	.....	.....	.....	.....	.....	.....	3.89	+0.41	1.37	0	10	.....	.....	.....	.....	Lockmaster.
Grant, Dam 38	Boone	581	45	69.2	− 0.6	95	8	39	20†	36	4.01	+0.72	3.62	0	5	4	3	23	sw.	Mrs. Bettie K. H. Alcorn
Greensburg	Green	544	36	.....	.....	.....	.....	.....	.....	.....	3.73	+0.83	2.46	0	10	.....	.....	.....	.....	Lockmaster.
High Bridge, Lock 7	Jessamine	646	40	70.8	+ 0.2	91	7	44	19	26	2.43	−0.47	0.76	0	9	12	10	8	sw.	W. J. Pigzot.
Irvington	Breckinridge	1032	12	.....	.....	.....	.....	.....	.....	.....	2.27	−0.66	1.58	0	5	.....	.....	.....	.....	Walter Killion.
Lancaster	Garrard	635	42	70.3	+ 0.1	97	8	41	20	32	4.80	+1.33	1.75	0	9	12	12	6	sw.	R. H. Willis.
Leitchfield	Grayson	989	54	69.8	+ 1.3	96	6	41	20	35	2.28	−0.78	1.11	0	11	13	7	10	.....	U. S. Weather Bureau
Lexington	Fayette	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.38	−1.82	0.72	0	6	.....	.....	.....	.....	Lockmaster.
Little Hickman, Lock 8¶	Jessamine	560	28	.....	.....	.....	.....	.....	.....	.....	3 40	+0.32	1.17	0	6	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	.....	.....	.....	.....	.....	.....	.....	2.99	+0.21	1.40	0	8	15	9	6	sw.	U. S. Weather Bureau
LOUISVILLE	Jefferson	459	65	71.2	+ 0.7	92	7	43	19	24	3.87	.....	1.96	0	7	.....	.....	.....	.....	U. S. Dept. of Commerce.
Do. Bowman Field	Jefferson	558	....	70.8	.....	94	6	46	19†	28	6.00	.....	2.51	0	12	10	13	7	sw.	Ivan J. Ellsworth.
Mammoth Cave	Edmonson	800	3	68.0	.....	92	8	37	20	38	5.58	.....	1.21	0	11	12	6	12	.....	E. O Cooper
Monticello	Wayne	910	...	.....	.....	.....	.....	.....	.....	.....	3.88	+1.20	1.90	0	5	.....	.....	.....	.....	Mrs. M. W. Price.
Munfordville	Hart	600	9	.....	.....	.....	.....	.....	.....	.....	3.34	+0.29	1.44	0	10	14	7	9	.....	Sisters of Loretto.
st. John	Hardin	777	42	70.4	+ 1.0	94	7	41	20	30	2.89	−0.17	1.65	0	6	.....	.....	.....	.....	Lockmaster.
Salvisa, Lock 5¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	4.08	+1.24	2.25	0	7	15	2	13	sw.	Willa S Ratta.
Shelbyville	Shelby	825	45	68.6	− 1.0	94	6†	41	20	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. McLeod.
Shepherdsville	Bullitt	500	1	.....	.....	.....	.....	.....	.....	.....	8.98	.....	2.12	0	12	.....	.....	.....	.....	Airway Station.
Smith's Grove	Warren	607	...	69.8	.....	96	8	41	21†	37	2.53	.....	0.73	0	9	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	68.3	.....	90	6	40	21	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thad Cheatham, Sr.
Taylorsville	Spencer	489	32	.....	.....	.....	.....	.....	.....	.....	2.35	−0.94	0.78	0	9	.....	.....	.....	.....	Lockmaster.
Tyrone, Lock 5¶	Anderson	524	20	.....	.....	.....	.....	.....	.....	.....	4.49	+1.86	1.97	0	11	16	4	10	w.	Miss Nettie B. Simpson.
Williamstown	Grant	943	35	71.1	+ 1.8	97	6†	42	20	37	7.59	+4.89	2.28	0	9	.....	.....	.....	.....	Lockmaster.
Woodbury, Lock 4	Butler	504	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Eastern Division.																				
Annville	Jackson	.....	7	.....	.....	.....	.....	.....	.....	.....	4.09	....	1.43	0	11	12	12	6	ne.	W. A Worthington.
Ashland	Boyd	534	21	70.0	− 0.5	93	6†	44	20†	35	4.95	+1.18	1.74	0	9	11	10	9	sw.	Lockmaster.
Borea	Madison	1070	35	*68.8	− 1.1	90*	7	41*	20	29*	2.90	−0.04	0 61	0	9	12	7	11	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	.....	.....	2.67	−0.75	0.78	0	8	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	20	.....	.....	.....	.....	.....	.....	.....	3.81	−0.07	1.16	0	8	.....	.....	.....	.....	S. M Hill
Falmouth	Pendleton	600	49	.....	.....	.....	.....	.....	.....	.....	3.69	+1.07	1.29	0	8	.....	.....	.....	.....	J. W Gibbian
Farmers	Rowan	668	31	69.8	+ 1.5	96	6	42	22	37	2.74	+0.02	1.03	0	9	11	3	16	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	13	.....	.....	.....	.....	.....	.....	.....	3.67	+0 32	1.75	0	6	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	.....	.....	.....	.....	.....	.....	.....	1.74	−1.28	0.97	0	9	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	559	8	.....	.....	.....	.....	.....	.....	.....	3.66	+1.45	0.98	0	7	.....	.....	.....	.....	Mrs Ruby A. Burton.
Greenup, Dam 30	Greenup	540	18	.....	.....	.....	.....	.....	.....	.....	7.13	+4.65	2.36	0	8	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	14	.....	.....	.....	.....	.....	.....	.....	2.86	−0.34	0.90	0	8	.....	.....	.....	.....	H. A. Bally.
Heidelberg, Lock 14	Lee	663	3	69.4	.....	93	6	43	20	34	3.75	+0.61	1.75	0	11	8	7	15	sw.	Lockmaster.
Jackson	Breathitt	776	14	.....	.....	.....	.....	.....	.....	.....	1.91	.....	1.15	0	3	.....	.....	.....	.....	Jas T Goff.
Jenkins	Letcher	1566	12	.....	.....	.....	.....	.....	.....	.....	4.21	+1.30	1.04	0	8	.....	.....	.....	.....	R. J Howard.
Louisa	Lawrence	554	35	.....	.....	.....	.....	.....	.....	.....	1 90	−0.69	0.53	0	6	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 35	Mason	524	40	69.4	− 0.3	93	7	43	20	33	5.29	+2.40	1.26	0	9	10	11	9	s.	Lockmaster.
Middlesboro	Bell	1128	39	*68.4	− 1.2	91*	6†	40*	22	34*	1.10	−2.09	0.58	0	5	24	3	3	.....	Matthew Woodson
Mount Sterling	Montgomery	980	45	.....	.....	.....	.....	.....	.....	.....	4 03	....	1.40	0	6	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	800	1	.....	.....	.....	.....	.....	.....	.....	2.64	−0.65	0.80	0	11	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35¶	Campbell	497	16	.....	.....	.....	.....	.....	.....	.....	2.87	.....	1.70	0	7	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	.....	.....	.....	.....	.....	.....	.....	1.77	−1.19	0.68	0	8	.....	.....	.....	.....	L. L Donta.
Pikeville	Pike	636	2	70.6	.....	93	6†	47	21	34	2.67	.....	0.88	0	12	15	12	3	w.	U. S Weather Bureau.
Pippapass	Knott	1035	4	.....	.....	.....	.....	43	21	.....	2.85	−1.00	1.02	0	7	.....	.....	.....	.....	Caney Run Com. Cen.
Quicksand	Breathitt	732	12	.....	.....	.....	.....	43	9	.....	4 09	+0.53	1.60	0	8	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	.....	.....	.....	.....	.....	.....	.....	1 90	−1.05	1.25	0	6	15	9	6	.....	Lockmaster.
Richmond	Madison	926	41	71.0	− 0.1	92	6	44	21	29	1.40	−2 01	0.53	0	8	.....	.....	.....	.....	J. W Crooke.
Valley View, Lock 9	Madison	571	25	.....	.....	.....	.....	.....	.....	.....	3.65	+1.01	1.20	0	8	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	.....	.....	.....	.....	.....	.....	.....	2 85	−0.67	0 64	0	10	14	11	5	.....	Lockmaster.
Williamsburg	Whitley	939	41	70.8	0.0	94	6	42	22	39	3.17	+0.11	1 20	0	8	.....	.....	.....	.....	Wadely West.
Willow, Lock 13	Lee	646	18	.....	.....	.....	.....	.....	.....	.....	1.95	.....	1.27	0	10	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	....	69.2	.....	91	6†	42	20	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	70.3	− 0.2	101	8	37	20	39	3.52	+0.53	3.90	0	8	14	9	7	sw.	

** Precipitation by U. S. Engineers.

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, *, b, °, appearing in the table indicate number of days missing; for example, b represents two days, etc. T Precipitation is less than 0.01 inch rain or melted snow
* Also on other dates. †† Received too late to be included in means and summaries
¶Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.

Daily Precipitation for September, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G.	1.85										2.53		.96	.11	.13	T.		.31														5.89
Calhoun G.																																
Earlington ‖ G.	.07	.10						.17	.73	.54		.03	1.76	.08	T.			.18	.11													3.77
Fords Ferry Dam 50‖ O.		T.								.51	1.09	.16	.50	.63	T.			.24	.07													2.60
Gilbertsville‖ T.																																
Greenville G.	.05									1.00			.93	.16	.10			.16												.05		2.49
Hartford G.																																
Henderson O.							.21		.28	.04	.11	.63	T.		.04			.81														2.12
Hopkinsville‖ C.		.49						.00	.17	.85				.10	.13			.07														1.87
Lovelaceville M.	.20								.70	.25	.25			.35				.25														2.00
Mayfield M.	1.68									.54	T.			.29	.03																	2.54
Murray T.	1.28										1.12			.42																		2.82
Owensboro‖ O.	.24									.49			.72	.34	T.	.01		.42														2.22
Owensboro, Dam 46 ‖ O.	.24							T.		.53	T.		.60	T.	T.	T.	T.	.29	.16													1.82
Paducah‖ O.		T.								1.18			T.	.12	.03	.02		.21														1.56
Princeton G.								.48	.60	.10	.38	.02	.35	.07	.05			.12														2.04
Rumsey, Lock No. 2 ‖									.81		.54	.33	.24	.62	.04			.18	.06													3.22
Russellville‖ G.	3.90								.09		3.43		.01		.15	.11																7.69
Uniontown, Dam 49‖ O.											2.60	.06	.31	.40	T.	T.		.33														3.70
Central Division																																
Addison, Dam 45‖ O.	.45							.60	.03		1.58	1.87	.20	.51	.28	.02		.05	.22													5.81
Anchorage O.							.56	.63		2.69	T		.09	1.21				.34												T.		5.52
Bowling Green ‖ G.	2.00								T.		2.90	1.20	.75	.10	.10	T.			T.													7.05
Brownsville, Lock No. 6‖ G.	1.31								.11		1.72	.58	.10	1.40	.08	.05	.04		.03													5.87
Burnside‖ C.	1.45							.45	.69		1.49	.44		.25	1.10	.20			1.04											.33	.07	7.51
Carrollton Lock No. 1‖ K.	.25										.18				.23		.05	.28		.06												1.00
Cold Spring, Dam 36‖ O.	T.								.27	.01	1.10		.38	1.01	.15	T.		.10	.18		.04	.08										3.32
Danville‖ K.	.28	.03									1.10	.40		.02	.13	.06		.08				T.										2.10
Dix Dam, Burgin K.							.15			2.00	.10	.10	.11	.10	.16			.05														2.77
Eadsville C.	1.15							.26	.96		1.04	.27	.02	.06	1.22	.07			1.18											.15		6.88
Eubank C.								2.70		.80			.25	.36		.60																4.71
Frankfort, Lock No. 4‖ K.	.17							.09			.10		T.	.33	.21	.45	T.		.34		T.	.03										1.72
Gest, Lock No. 3 ‖ K.	.66										.62	T.		.78	.08	.41			.31		.03	.06										2.95
Glasgow G.																																
Grant, Dam 38‖ G.	T.							.58	.73	T.	1.37		T.	.52	.14	T.	.02	.15	.13		.02	.23										3.89
Greensburg G.	3.52													.27	.05	.12			.05													4.01
High Bridge, Lock No. 7‖ K.	.05							.56			2.46	.08	.10	.06	.12	.07			.20			.03	T.									3.73
Irvington O.	.72							.76	.04	.08	.25		.08	.04	.26			.20														2.43
Lancaster‖ K.										1.58		.66		.06	.80			.28														2.27
Leitchfield ‖ G.	1.75								.39		1.38	.47	.08	.38	.11	.06			.23													4.80
Lexington *** K.							T.		.01	1.11	.01	.01	.21	.19	.31	.01		.35	.02	T.		.06										2.29
Little Hickman, Lock No. 8 ‖ K.	.12							T			.72		.22	.12		.08			.12			T.	T.									1.38
Lockport, Lock No. 2 ‖ K.	1.17										.55			.89	.10	.48			.21			T.										3.40
Louisville*** O.							T.	.04		1.40		.01	.05	1.06	.14		.02	.27														2.99
Do. Bowman Field D.	.03						T.	.11		1.06	T.		.03	1.06	.45		T.	.21														3.87
Mammoth Cave G.	2.51	.02							.10	.52	1.28	.48	.04	.86	.03	.09	.02		.03													6.00
Monticello C.	.95							.33			.88	1.05	.04	.09				.03	1.21											.11	.58	5.35
Munfordville ‖ G.	1.90										.80	.43		.55	T.	.20																3.88
St. John ‖ S.	1.44	.12						.04	.07		.31	.30		.39	.22	.01		T.	.44													3.34
Salvisa, Lock No 6 ‖ K.	T.							.25			1.65		.25	.31	.15	T.			.28			T.										2.89
Shelbyville‖ S.	.16							2.25			.66		.03	.24	.29	.26			.29				T.									4.08
Shepherdsville S.																																
Smith's Grove G.	1.82	.03						.87	.89	.60	2.12	.69	1.09	1.16	.14				.05											.02		8.98
Stearns C.								.12			.73		.42	.61	T.	.08		.10	.19								.09			.24		2.58
Taylorsville O.																																
Tyrone, Lock No. 5‖ K.	.52							.25			.78		T.	.18	.15	.22			.18		.02	.05	T.									2.35
Williamstown ‖ I.	10							1.27	.83		.90	.05	.07	.90	.05	05			.10			.17										4.49
Woodbury, Lock No. 4‖ G.	.96								.18		2.28	1.70	1.38	.58	.23	.09			.19													7.59
Eastern Division																																
Annville ‖ C.	.50	.35						.01			1.43		.05	.46	.21	.08			.97			.02	T.				.01					4.09
Ashland O.								.43			.09		1.74	1.02	.70	.07			.70	.18								.02				4.95
Berea K.	.32									.64	.23		.01	.28		.50		.20	.68			.04										2.90
College Hill, Lock No. 11‖ K.	.11									.04	.78			.13	.21	.08			.67			.05										2.07
Cumberland																																
Cynthiana ‖ L.								.10		.21	1.16		.42	.12	.95	T.		.20			.15										3.31
Falmouth‖ L.	.12							.67	.09	T.	1.23			.93	.21	T.			.28	T.	.10											3.69
Farmers ‖ L.							.02		.10	1.05			.20	.52			.02		.09	.71		.03										2.74
Flemingsburg‖								.62			1.75		.14	.84		.14			.18													3.67
Ford, Lock No. 10 ‖ K.	.01									.07	.97		.01	.08	.13	.21			.22			.04										1.74
Grayson O.	.90							T.			.40			.23	.48	.06			.97	.07	T.								T.			3.66
Greenup, Dam 30‖ O.								.03		T.	.18		1.40	2.36	1.71	.06			1.26	.18	T.											7.13
Hazard‖ K.								.33			.90			.46	.52	.17														.48		2.86
Heidelberg, Lock No. 14‖ K.	.18	.08						.07			1.75			.89	.15	.28			.69	.18		.02	.01									3.75
Jackson ‖ K.											1.18			.66	.10				T.													1.91
Jenkins‖ B.	.22	.06							*1		.70			.27	.90	.24														1.04		4.24
Louisa‖ B.								.05			.55		.15	.50	.45					.20												1.90
Maysville, Dam 38‖ O.								.79		.19	1.26		.10	1.14	1.28	.02			.51			.03										5.29
Middlesboro C.		.09											.15		.58	.05																1.10
Mount Sterling L.																													.25			
Oneida‖ K.	.80						.10				.50			1.40					.90											.83		4.08
Oneonta Dam 35‖ O.	T.							.52	.12	.04	.80		.18	.31	.26	.19			.10		.04	.08										2.64
Paintsville ‖ B.	T.							.08			1.70			.80	.35	.24	.04			.16	T.											2.87
Pikeville K.	T.						T.	T.		.68	T.		.05	.20	.24	.31			T.		.02								.32	.05		1.77
Pippapass K.	.04	.10						.10		.40	.40		.11	.88	.14	.17			.03											.25	.05		2.67
Quicksand‖ K.	.48										1.02			.47	T.	.12		.15		.18											.48		2.85
Ravenna, Lock No. 12‖ K.	15										.73		.06	.38	.09	.95			1.60	T.		19	T.									4.09
Richmond‖ K.										1.25			.05	.05	.05			.40			.10											1.90
Valley View, Lock No. 9‖ K.	.03							I			.93		.05	13	.05	.03			.14		.04											1.40
Vanceburg, Dam No. 32 ‖ O.								.03			.99		.02	1.15	1.20				.17	.04		.05										3.65
Williamsburg‖ C.	.49								.41		.34		.26	.14	.64	.15			.06	.04												2.85
Willow, Lock No. 13‖ K.	.08	.06									.83			.56	.16	.24			1.20													3.17
Winchester K.								.08	1.27	.05	.02	.21	.02	.10		.01	T.	.18	T		.01											1.95

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for September, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	90	81	85	90	88	92	94	95	91	94	78	91	85	82	75	72	74	70	68	67	70	75	86	87	87	88	90	86	80	80	..	83.1
	Minimum	66	62	62	57	58	66	70	70	68	71	68	67	72	72	68	57	53	58	42	41	44	44	52	54	55	58	60	60	61	50	..	59.4
Calhoun	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Earlington	Maximum	91	83	86	88	92	93	94	95	95	93	92	91	86	84	82	76	74	73	69	69	69	76	86	87	85	89	91	85	79	79	..	84.4
	Minimum	69	69	61	57	58	64	73	72	69	72	69	69	72	72	64	66	52	58	41	43	44	45	56	57	56	53	54	60	56	50	..	60.0
Greenville	Maximum	90	83	85	90	91	94	95	96	95	..	88	90	85	82	80	75	76	72	68	65	69	75	85	87	90	88	91	85	79	80		*83.8
	Minimum	66	59	59	55	55	63	69	68	65	..	65	64	70	70	60	55	48	56	39	39	43	41	50	53	54	54	60	66	57	46	..	*56.5
Henderson	Maximum	91	84	90	92	88	93	95	101	93	90	78	89	79	84	79	76	70	72	68	65	71	77	82	85	86	88	90	82	81	79	..	83.8
	Minimum	67	66	62	58	59	64	71	71	68	69	68	68	71	71	64	64	46	56	40	42	42	46	55	58	57	59	63	63	54	49	..	58.7
Hopkinsville	Maximum	90	84	84	90	91	95	94	95	94	97	82	91	89	81	75	72	75	69	70	71	70	78	84	87	89	88	90	84	82	79	..	84.0
	Minimum	67	64	62	58	56	63	68	68	68	69	61	67	69	71	60	56	49	55	40	39	40	42	48	51	54	56	56	58	60	50	..	57.4
Lovelaceville	Maximum	89	80	79	86	87	91	95	94	96	94	90	87	87	84	77	71	76	74	67	67	70	77	84	87	78	86	91	84	80	85	..	83.1
	Minimum	67	60	60	56	58	61	65	67	66	69	66	67	72	70	62	62	45	57	39	39	41	42	47	52	54	56	56	57	53	48	..	56.3
Mayfield	Maximum	90	84	82	87	88	92	94	95	95	94	92	90	88	85	78	74	76	75	73	73	79	85	87	90	88	92	93	85	86	83	..	85.0
	Minimum	66	63	62	59	62	64	69	70	71	72	67	68	70	69	61	52	46	58	43	40	42	45	53	57	58	61	60	69	55	50	..	59.1
Murray	Maximum	90	82	79	86	89	93	94	96	95	94	94	90	88	81	72	72	75	68	67	69	69	77	83	86	88	88	91	83	78	80	..	83.2
	Minimum	67	65	63	62	63	65	71	71	73	70	70	74	73	65	63	54	50	60	60	44	46	51	55	56	58	60	63	62	68	54	..	61.9
Owensboro	Maximum	87	85	83	88	89	91	93	93	92	93	80	87	84	82	78	72	71	71	64	64	67	74	83	84	86	85	88	85	77	70	..	81.5
	Minimum	66	61	63	56	58	66	69	71	67	69	67	66	69	70	63	55	50	55	41	41	45	46	51	53	53	56	57	56	58	53	..	58.4
Paducah	Maximum	90	84	82	88	89	92	95	96	97	97	92	90	88	86	77	72	76	72	68	67	72	78	85	88	89	86	93	84	81	84	..	84.6
	Minimum	70	60	60	57	60	61	69	69	69	72	69	68	73	72	63	53	47	66	42	42	40	48	51	55	55	60	60	56	51	49	..	58.6
Princeton	Maximum	87	81	82	87	89	92	92	92	90	92	85	89	86	83	76	74	74	70	66	63	69	77	84	85	87	86	90	83	81	80	..	82.4
	Minimum	69	64	64	59	59	66	70	71	72	71	68	68	72	73	68	57	50	58	42	42	48	46	51	54	56	58	59	60	62	52	..	59.8
Russellville§§	Maximum	85	81	82	87	86	91	94	94	90	90	75	90	89	78	73	69	75	69	71	64	69	75	85	87	88	88	88	87	77	76	..	81.1
	Minimum	66	63	59	56	56	69	69	66	68	70	66	67	70	72	60	55	60	62	45	40	40	43	52	55	49	55	59	59	60	49	..	58.1
Central Division.																																	
Auchorage	Maximum	83	86	81	85	88	89	90	85	85	89	82	87	83	81	68	70	70	61	66	61	65	70	81	82	83	84	86	82	74	73	..	79.1
	Minimum	60	57	61	58	60	64	69	68	67	65	65	65	69	67	62	56	55	54	42	41	41	45	50	54	55	54	58	57	59	46	..	57.4
Bowling Green	Maximum	86	81	82	92	89	92	94	94	90	91	76	85	81	80	77	70	75	67	70	63	67	75	83	86	86	87	89	87	83	79	..	81.4
	Minimum	66	64	63	64	62	67	72	72	71	72	69	66	71	72	63	59	57	60	59	45	48	54	56	56	58	60	62	64	65	51	..	61.8
Danville	Maximum	80	80	82	87	89	92	90	90	87	82	78	88	86	77	74	72	70	62	63	65	70	83	84	86	86	86	86	84	75	75	..	79.7
	Minimum	62	56	60	53	57	60	69	66	65	64	64	63	69	69	61	52	56	52	48	38	42	40	52	52	50	52	58	57	61	45	..	56.4
Dix Dam	Maximum	86	83	83	89	91	93	92	91	88	87	82	89	85	82	78	76	74	71	68	63	62	70	83	85	87	88	87	84	80	75	..	81.7
	Minimum	66	59	62	57	61	62	71	69	68	67	67	67	72	73	65	65	60	56	52	43	46	48	56	57	54	56	62	61	64	48	..	60.1
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	85	84	85	91	93	95	94	87	88	89	84	91	88	82	71	74	71	68	68	69	72	84	86	89	87	87	85	76	76	76	..	82.0
	Minimum	68	55	60	57	60	60	67	67	67	65	66	66	70	73	66	64	59	54	49	42	42	47	51	51	52	52	58	60	59	46	..	58.1
Greensburg	Maximum	89	82	76	90	91	94	98	95	91	89	83	91	89	82	78	78	76	69	71	65	71	73	85	87	89	88	89	82	78	78	..	82.8
	Minimum	61	58	56	54	56	61	68	67	66	63	64	62	69	70	62	52	56	52	48	39	39	41	47	47	48	50	54	55	61	44	..	55.7
Irvington	Maximum	85	80	81	85	87	89	91	90	88	90	80	88	83	83	75	73	76	70	66	62	66	72	81	83	84	84	86	82	76	73	..	80.3
	Minimum	65	60	65	59	62	62	73	72	70	70	69	69	71	71	65	64	58	57	44	45	47	49	66	60	58	60	64	62	56	47	..	61.3
Leitchfield	Maximum	86	79	82	87	90	92	91	97	92	90	74	89	86	81	74	68	74	64	69	63	67	74	84	86	87	86	89	84	78	76	..	81.3
	Minimum	67	60	62	57	59	67	71	72	67	68	67	67	71	71	65	55	54	55	43	41	44	45	54	56	56	56	60	60	61	52	..	59.3
Lexington	Maximum	84	85	82	94	93	96	93	87	86	90	82	91	87	79	75	72	75	68	69	62	65	68	83	86	88	87	89	83	74	73	..	81.4
	Minimum	63	58	62	59	62	64	68	67	64	65	65	66	70	69	59	55	55	53	46	41	42	48	53	55	54	61	59	61	57	47	..	58.1
Louisville	Maximum	83	82	82	88	88	91	92	88	87	89	83	88	82	80	72	69	71	65	63	63	64	72	82	84	85	86	86	82	75	72	..	79.8
	Minimum	67	62	66	66	68	67	76	72	70	69	70	70	72	69	60	57	59	53	48	50	51	52	60	65	62	63	65	60	57	52	..	62.6
Do. Bowman Field	Maximum	82	84	82	88	93	94	93	88	88	90	84	89	84	81	71	69	72	67	64	62	64	72	83	84	85	85	87	81	77	75	..	80.3
	Minimum	68	59	64	61	64	66	73	72	70	71	69	69	72	72	66	57	59	57	46	46	48	49	56	60	60	59	63	60	57	50	..	61.4
Mammoth Cave	Maximum	85	81	81	86	87	91	90	92	91	89	74	89	82	80	70	70	73	69	69	64	66	73	83	80	87	81	87	83	76	75	..	80.1
	Minimum	62	58	57	52	54	62	69	66	64	66	65	63	67	69	59	53	55	54	42	37	39	42	52	52	49	51	59	56	59	46	..	56.0
St. John	Maximum	85	80	83	87	88	89	94	92	90	89	77	90	84	80	79	70	76	67	69	65	69	73	82	84	86	86	89	88	86	82	..	81.9
	Minimum	63	58	63	55	59	66	69	70	68	69	67	66	69	71	62	55	55	56	42	41	43	45	51	52	52	60	62	67	63	54	..	59.0
Shelbyville	Maximum	82	82	82	89	89	94	94	88	86	81	82	90	86	81	75	70	73	65	67	63	64	70	82	84	87	85	87	79	74	73	..	80.1
	Minimum	65	56	60	58	59	62	67	66	66	64	65	68	70	69	63	55	53	53	43	41	43	47	50	53	53	54	57	57	56	46	..	57.1
Smith's Grove	Maximum	89	82	83	90	90	94	93	96	94	90	83	81	75	72	75	66	70	66	69	74	84	86	88	86	89	85	78	78	..	82.3
	Minimum	62	64	62	53	54	63	67	66	68	71	68	63	68	69	57	57	58	54	44	38	41	41	54	53	51	52	54	56	60	52	..	57.3
Stearns	Maximum	83	82	79	84	86	90	89	88	86	76	78	88	82	83	73	72	71	76	66	62	64	66	79	81	85	85	84	84	66	72	..	78.6
	Minimum	64	62	60	55	57	62	68	68	64	66	64	65	67	67	64	58	59	58	52	41	40	44	50	52	53	56	58	58	63	51	..	58.0
Williamstown	Maximum	90	87	90	94	95	97	97	83	88	83	83	94	84	84	79	76	77	70	71	66	69	70	86	88	90	80	80	81	77	75	..	*83.5
	Minimum	65	65	65	60	64	60	71	67	65	67	64	67	70	71	64	55	57	54	46	42	44	49	54	58	58	57	60	57	56	46	..	58.7
Eastern Division.																																	
Ashland	Maximum	86	86	85	90	90	93	92	93	84	82	83	86	88	84	80	70	77	78	67	65	62	65	83	85	82	87	86	82	74	71	..	81.2
	Minimum	70	65	56	57	60	58	67	67	66	69	67	69	69	71	66	60	60	57	54	44	44	45	49	52	56	57	56	57	62	53	..	58.9
Berea	Maximum	82	80	81	86	..	87	90	88	84	82	80	87	84	83	73	73	72	66	65	67	65	80	83	83	84	84	84	79	74	..	..	*79.2
	Minimum	59	60	61	58	..	60	57	66	66	65	65	66	70	70	63	56	58	55	50	41	44	47	55	59	56	60	62	61	62	45	..	*58.5
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	89	84	83	91	94	96	94	88	89	84	81	88	87	83	80	72	76	77	70	69	65	69	84	77	39	88	87	85	75	74	..	82.2
	Minimum	70	63	58	53	57	58	64	70	61	62	65	61	69	63	64	57	58	56	53	43	42	48	54	47	53	58	54	57	60	47	..	57.4
Heidelberg	Maximum	82	82	80	88	91	93	90	85	83	79	78	90	83	83	75	72	75	77	67	63	65	67	82	84	86	86	85	85	70	75	..	80.1
	Minimum	68	68	60	55	58	60	64	68	67	64	66	64	65	70	65	62	60	52	55	43	53	48	49	50	52	53	53	55	63	52	..	58.7
Maysville	Maximum	86	83	87	90	91	89	93	78	86	80	80	89	86	82	73	74	76	71	68	63	65	67	83	85	87	86	86	82	73	72	..	80.4
	Minimum	66	55	59	57	60	59	66	67	63	64	65	68	72	70	66	57	61	55	54	45	45	47	50	53	57	57	57	60	55	47	..	58.5
Middlesboro	Maximum	86	85	84	89	91	91	90	88	88	83	79	85	82	..	82	72	72	78	73	66	64	66	80	82	..	80	82	82	81	76	73	*80.4
	Minimum	67	65	62	57	57	61	63	66	67	67	64	64	66	..	65	60	55	49	52	42	41	40	45	50	50	52	53	56	58	53	..	*56.5
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	86	84	84	90	93	76	93	85	88	85	84	88	84	87	82	68	75	80	61	65	66	62	82	85	86	89	85	87	70	73	..	80.8
	Minimum	69	61	60	60	59	61	64	67	69	65	64	67	70	71	62	63	60	60	61	51	47	48	49	49	55	57	54	59	64	59	..	60.4
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	69	61	65	57	61	58	59	68	69	66	63	64	67	68	65	60	52	74	56	47	43	46	50	50	51	52	58	55	58	54	..	58.5
Quicksand	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	55	56	58	57	58	58	62	66	65	62	63	66	65	68	61	58	56	58	52	44	43	46	43	48	50	51	51	55	57	49	..	55.9
Richmond	Maximum	83	82	80	88	90	92	90	88	87	83	80	90	87	82	75	74	73	72	66	64	64	67	82	84	87	86	87	85	72	73	..	80.5
	Minimum	67	62	63	62	62	65	74	72	69	66	65	68	70	65	67	60	57	53	45	44	48	55	60	58	60	62	63	63	63	50	..	61.5
Williamsburg	Maximum	93	87	84	91	92	94	92	92	89	79	83	90	86	86	85	83	75	81	69	67	66	69	84	89	87	86	85	88	69	83	..	83.5
	Minimum	69	66	60	59	58	62	64	68	68	67	66	65	68	68	67	61	58	52	49	44	44	42	49	50	51	50	51	52	60	44	..	58.0
Winchester	Maximum	83	82	79	87	90	91	91	88	84	84	77	87	85	80	75	72	73	71	66	60	64	68	81	83	85	85	85	83	70	72	..	79.4
	Minimum	66	56	62	58	62	63	70	67	68	66	66	65	70	71	65	55	58	54	50	42	44	44	54	55	57	57	58	62	62	47	..	59.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a,b,c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville. 10-26-38-1100

51.05
NKE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., OCTOBER, 1938 No. 10

GENERAL SUMMARY.

The weather was exceptionally dry, and considerably warmer than normal. The dry spell that commenced at the beginning of the last decade of the preceding month continued through this month, making a 40-day period that was broken in most of the State by only a few light showers. Pastures became short by the middle of the month and had practically dried up at the end. Most grain that was sown early in the month came up to a good stand. Germination became more irregular as the month proceeded, until finally there was little or none. At the close a large proportion of the last seedings, especially in the southern counties, had not come up. A more serious feature was that much of the young grain sprouted and perished because supporting moisture failed. Late potatoes could not fully develop on account of increasing dryness. They ranged from fair to worthless, depending on the moisture retaining properties of the soil.

The dry weather favored the curing of the last hay, the filling of silos, and the threshing of soybeans and lespedeza. All corn matured before frost, which was heavy to killing in most sections on the 24th or 25th. Shocked corn dried out so thoroughly that it could be cribbed with safety. Gathering advanced ahead of the usual stage, and was finished on some farms. Over the State it averaged more than half completed. Cotton picking also advanced unusually well.

The mild dry weather caused late tobacco to cure quickly and with remarkably fine color. As there was no rain to condition it for handling, practically no stripping occurred. The weather was exceptionally favorable for gathering apples, digging sweet potatoes, making sorghum, and other fall work. Gardens, field tomatoes, and late potatoes failed from drying up rather than from the effects of frost, which found practically nothing to damage when it occurred. Shortage of water for livestock caused inconvenience in the hilly and upland sections during the last two weeks. The forest floor became very dry and the fire hazard increased to dangerous proportions toward the end.

TEMPERATURE.

Except for brief periods of cool weather at the beginning of the month and the last decade, temperatures above normal prevailed. The weather was decidedly warm from the 9th to 18th, when daily means ranged from 5° to 14° above the seasonal average and maxima of 80° or higher occurred almost daily in all sections of the State. In comparison with normal temperatures the weather was considerably warmer in the western than in the central and eastern districts. The coolest weather prevailed on the 24-25th, when minimum temperatures of 25° to 30° were registered at most stations. Extremes for the State were 95° at Paducah on the 5th and 24° at Greensburg on the 25th.

PRECIPITATION.

Precipitation averaged about one-sixth of the normal amount for this month. Except in 1924 it was the driest October since State records were established. A few western stations reported one inch or slightly more. Eastward from this section the rainfall decreased to very small amounts in the eastern half of the State, where most stations reported less than 0.5 inch. Practically all of the Kentucky River Basin received from 0.1 to 0.2 inch, and most other eastern districts from 0.3 to 0.4 inch. Amounts for the State ranged between 2.62 inches at Murray, and no rain at Pippapass and Middlesboro. Showers occurred rather generally on the 19-20th and 23d-24th. They were moderate to heavy in the western counties on the 19th, and generally light in other districts on all dates of occurrence. Widely scattered showers were reported on the 6th and 13-14th. A few localities were visited by thunderstorms on the 5th and 13th.

MISCELLANEOUS.

Rivers.—Headwater tributaries became very low toward the close of the month In the main streams pool stages remained almost unchanged.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.10	30.36	9	29.70	22	6.5	19	n.	19	79	40	48	92
Cincinnati .....Ohio	30.14	30.47	7	29.71	21	5.9	20	w.	26	85	46	52	81
Evansville..... Ind.	30.12	30.40	7	29.69	22	6.8	28	sw.	22	73	38	43	83
Louisville .....Ky.	30.14	30.45	7	29.69	22	8.4	27	e.	22	76	45	46	82

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	52.0	89	23	2.40	....	..	..	.	..
1890	55.7	87	23	2.94	....	..	..	.	..
1891	54.8	92	21	0.78	....	..	..	..	..
1892	57.3	97	19	0.51	....	..	..	..	..
1893	56.4	90	19	4.00	....	..	..	..	..
1894	58.6	92	25	1.36	....	5	..	..	..
1895	52.2	89	14	1.24	....	4	21	5	5
1896	55.8	90	25	1.71	....	5	18	7	6
1897	63.2	96	26	1.10	0.0	4	25	3	3
1898	57.1	93	21	4.19	T.	10	12	9	10
1899	61.3	93	26	2.42	0.0	5	18	6	7
1900	64.5	94	29	2.29	0.0	5	16	8	7
1901	58.1	93	25	1.57	0.0	4	22	6	3
1902	60.1	91	25	2.34	T.	5	18	7	6
1903	57.7	96	19	2.22	T.	5	19	6	6
1904	57.2	93	20	0.52	0.0	2	21	6	4
1905	57.0	90	25	4.95	0.0	9	14	5	12
1906	56.9	91	20	1.51	T.	7	15	5	11
1907	55.5	93	20	2.97	T.	6	18	5	8
1908	57.1	92	20	0.71	0.0	3	20	6	5
1909	55.2	94	18	2.11	T.	6	19	5	7
1910	61.4	96	17	4.45	0.1	6	20	4	7
1911	59.9	94	27	3.71	0.0	10	13	6	12
1912	59.5	92	25	1.42	0.0	4	18	7	6
1913	56.9	97	23	3.55	T.	9	15	5	12
1914	59.7	91	22	5.10	0.0	9	13	8	10
1915	60.6	90	27	3.40	0.0	6	18	7	6
1916	57.6	97	24	2.59	T.	6	20	5	6
1917	51.1	90	20	3.18	0.1	7	14	8	9
1918	62.3	91	32	3.81	0.0	10	13	7	11
1919	65.6	98	35	7.99	0.0	15	8	7	16
1920	61.0	93	24	1.64	0.0	4	21	5	5
1921	57.1	90	24	2.81	0.0	6	20	6	5
1922	60.2	96	25	2.28	0.0	6	20	4	7
1923	56.5	89	19	1.68	0.2	5	18	5	8
1924	61.1	91	24	0.27	0.0	1	23	5	3
1925	52.9	88	18	7.09	3.2	11	6	7	18
1926	59.3	94	25	5.96	T.	11	12	8	11
1927	60.7	92	27	2.61	0.0	4	20	6	5
1928	61.6	95	21	3.93	0.0	8	17	7	7
1929	56.4	85	25	3.65	T.	8	14	5	12
1930	55.8	94	16	1.33	T.	6	16	7	8
1931	62.0	93	28	3.01	0.0	8	17	6	8
1932	56.0	85	24	3.31	0.0	7	17	5	9
1933	57.4	88	23	2.05	0.0	6	19	5	7
1934	59.8	88	22	0.83	0.0	4	21	5	5
1935	59.5	91	22	2.51	0.0	8	15	7	9
1936	58.5	88	24	3.47	0.0	9	10	9	12
1937	55.7	93	17	4.27	T.	12	13	6	12
1938	60.1	95	24	0.48	0.0	2	24	4	3
Period	58.2	98	13	2.72	0.1	6	17	6	8

†50-year averages.

Climatological Data for October, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	26	60.4	+ 1.7	90	5	31	25†	43	0.76	−2.04	0.61	0	2	23	4	4	w.	Eldred G. Young.
Calhoun	Mc can	437	34																	R. C. Beunett.
Carlington	Hopkins	420	44	61.6	+ 2.0	90	5	32	29	43	1.02	−2.28	0.90	0	2	28	2	1	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9								0.69	−2.21	0.42	0	5					Lockmaster.
Gilbertsville	Marshall	431									0.78		0.39	0	4					Tennessee Valley Authority.
Greenville	Muhlenburg	519	21	60.7	+ 1.4	92	5	30	24†	42	0.88	−2.84	0.78	0	2	27	3	1	s.	C. R. Lovell.
Hartford (near)	Ohio	640									0.82		0.39	0	4					W. R. Carson, Sr.
Henderson	Henderson	382	16	61.4		91	5	30	24	47	1.05	−2.18	0.88	0	4	23	6	2	e.	Frank T. Street, Jr.
Hopkinsville	Christian	524	42	61.4	+ 0.6	92	5	27	25	43	0.83	−3.10	0.18	0	3	28	1	2	n.	W. K. Morris.
Lovelaceville	Ballard	479	9	61.7	+ 1.7	92	5	26	24	47	1.00	−2.52	1.00	0	1	29	1	1	s.	Blaine Malone.
Mayfield	Graves	364	29	63.9	+ 3.4	94	5	29	24	40	1.03	−2.23	0.86	0	3	25	1	1	n.	Mrs. Joe Payne.
Murray	Calloway	412	12	66.4		92	5	31	24	38	2.62		2.42	0	3	25	1	4	s.	Pat W. Wear.
Owensboro	Daviess	420	41	60.4	+ 1.7	87	5†	27	24	44	0.68	−2.77	0.46	0	2	23	4	4	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10								0.56	−2.47	0.43	0	2					Lockmaster.
Paducah **	McCracken	341	18	63.0	+ 1.7	95	5	30	24	38	1.31	−2.01	0.74	0	3	25	3	3		U. S. Engineers.
Paducah (near)	McCracken	390	18	63.4		95	5	29	24	46	0.50	−1.95	0.90	0	1	29	1	1	s.	Joe Lagore.
Princeton	Caldwell	529	31	62.1	+ 2.9	91	5	30	25	43	0.98	−2.19	0.83	0	2	22	7	2	s.	Dr. W. L. Cash.
Ramsey, Lock 2‡	McLean	384	21								1.08	−2.12	0.71	0	5					Lockmaster.
Russellville	Logan	590	25	58.2	− 1.2	89	5	30	24	45	0.43	−2.45	0.23	0	2	26	2	3	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10								0.85	−2.09	0.80	0	5					Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10								0.55	−2.82	0.28	0	4					Lockmaster.
Anchorage	Jefferson	700	38	58.6	+ 1.9	88	18	29	25	48	0.55	−2.43	0.24	0	3	24	2	5		C. E. Barret.
Bowling Green	Warren	590	42	61.6	+ 1.7	87	5	35	25	39	0.92	−2.29	0.48	0	3	20	10	1	w.	Mrs. Lillie G Causey.
Brownsville, Lock 6‡	Edmonson	410	21								0.29	−2.75	0.14	0	3					Lockmaster.
Burnside	Pulaski	706	47								0.31	−2.87	0.17	0	2					T. A. Lewis
Carrollton, Lock 1	Carroll	480	39								0.42	−2.46	0.42	0	1					Lockmaster.
Cold Spring, Dam 36	Campbell	489	12								0.27	−2.26	0.11	0	3					Lockmaster.
Danville	Boyle	955	14	55.9		85	5	30	25	46	0.23	−1.62	0.21	0	2	23	6	2	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	60.8	+ 2.0	87	5†	34	28	44	0.26	−2.72	0.26	0	1	22	7	2	s.	Kentucky Utilities Co.
Eadsville	Wayne	622									0.16		0.13	0	2					Joe Norfleet.
Enbank	Pulaski	1177	43								0.00	−3.16	0.00	0	0	18	8	5	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	58.8	+ 1.4	88	5†	28	25	46	0.14	−2.57	0.08	0	2	23	4	4	e.	Lockmaster.
Gest, Lock 3	Henry	490	28								0.18	−2.73	0.10	0	2					Lockmaster.
Glasgow	Barren	760	7			86†	18	31†	27	47†	0.60	−2.11	0.40	0	2					G. E. Turner.
Grant, Dam 33	Boone	506	13								0.24	−2.21	0.20	0	2					Lockmaster.
Greensburg	Green	581	45	57.9	+ 0.8	88	5	24	25	39	0.34	−3.05	0.32	0	2	16	1	14	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36								0.33	−2.52	0.33	0	1					Lockmaster.
Irvington	Breckinridge	646	40	60.8	+ 3.6	84	5	33	24	36	0.40	−2.63	0.22	0	3	26	1	4	sw	W. J. Piggot.
Lancaster	Garrard	1032	12								0.43	−2.89	0.28	0	3					Walter Killion.
Leitchfield	Grayson	635	42	61.1	+ 2.6	88	5	33	25	41	0.46	−3.00	0.25	0	2	21	6	4	ne.	H. H. Willis.
Lexington	Fayette	989	54	59.4	+ 2.0	87	18	32	25	55	0.38	−2.21	0.31	0	2	24	3	4		U. S. Weather Bureau
Littlelickman, Lock 8¶	Jessamine	560	28								0.20	−2.62	0.20	0	1					Lockmaster.
Lockport, Lock 2	Henry	485	28								0.22	−2.61	0.22	0	1					Lockmaster.
Louisville	Jefferson	459	65	60.8	+ 1.8	84	18	38	24	38	0.49	−2.16	0.30	0	3	23	4	4	n.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558		59.9		88	5	29	25†	46	0.40		0.22	0	4					U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	800	3	58.2							0.56		0.41	0	2	24	3	4	nw.	Ivan J. Ellsworth.
Monticello	Wayne	910									0.20		0.18	0	2	27	3	1		E. O. Cooper
Munfordville	Hart	600	9								0.47	−2.93	0.32	0	2					Mrs. M. W. Price.
St. Joun	Hardin	777	42	60.8	+ 3.1	89	5	28	25	37	0.61	−2.66	0.33	0	4	19	9	3		Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24								0.18	−2.56	0.20	0	1					Lockmaster.
Shelbyville	Shelby	825	45	58.7	+ 1.6	87	18	30	25	45	0.38	−3.54	0.17	0	4	22	0	9	s.	Willis S. Ratta.
Shepherdsville	Pulliit	500	1								0.58		0.32	0	2	22	5	4	sw.	A. McLeod.
Smith's Grove	Warren	607		59.4		89	5	28	25	42	0.72		0.27	0	4					Airway Station.
Stearns	McCreary	1409	2	59.8		86	19	30	25	34	0.40		0.26	0	2					Airway Station,
Taylorsville	Spencer	489	32																	Thad. Cheatham, Sr.
Tyrone, Lock 5¶	Anderson	524	20								0.20	−2.80	0.18	0	1					Lockmaster.
Williamstown	Grant	943	35	59.8	+ 3.9	86	18	36	24†	34	0.00	−2.99	0.00	0	0	25	2	4	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	21								0.46	−2.57	0.28	0	3					Lockmaster.
Eastern Division.																				
Annville	Jackson		7								0.52		0.37	0	2	24	3	4	sw.	W. A. Worthington.
Ashland	Boyd	534	21	58.4	+ 0.6	88	18	32	25	42	0.53	−2.22	0.22	0	5	21	6	4	w.	Lockmaster.
Berea	Madison	1070	35	59.8	+ 1.2	85	18	31	28	40	0.31	−2.77	0.23	0	3	24	3	4	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28								0.36	−2.69	0.20	0	3					Lockmaster.
Cumberland	Harlan	1440	1																	C. Bertrand Fields.
Cynthiana	Harrison	684	20																	S. M Hill.
Falmouth	Pendleton	600	49								0.26	−2.25	0.23	0	3					J. V Oldham.
Farmers	Rowan	668	31	57.9	+ 1.4	83	18	26	25	50	0.34	−2.65	0.23	0	2	19	6	6	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	13								0.70	−2.61	0.51	0	2					C. A. Glascock
Ford, Lock 10¶	Clark	593	22								0.23	−2.36	0.23	0	1					Lockmaster.
Grayson	Carter	589	8																	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	18								0.50	−1.66	0.25	0	4					Lockmaster.
Hazard	Perry	969	14								0.32	−2.72	0.22	0	1					D. A. Baily.
Heidelberg, Lock 14	Lee	663	3	58.2		86	18	27	25	50	0.35	−2.77	0.23	0	2	25	2	4	ne.	Lockmaster.
Jackson	Breathitt	776	14								T.		T.	0	0					Jas T. Goff.
Jenkins	Letcher	1566	12								0.41	−3.10	0.22	0	3					R. J. Howard,
Lonisa	Lawrence	554	35								0.27	−2.60	0.15	0	2					Jacob Workman
Maysville, Dam 33	Mason	524	40	58.6	− 0.8	87	18	31	25†	39	0.26	−2.40	0.21	0	2	21	8	2	s.	Lockmaster.
Middlesboro	Bell	1128	39	°57.2	− 0.1	82ª	18†	25ª	26	39ª	0.00	−2.98	0.00	0	0	29	2	0		Matthew Woodson
Mount Sterling	Montgomery	930	45																	W. R McKee.
Oneida	Clay	800	1								0.40		0.29	0	2					Garret Combs.
Onconta, Dam 35¶	Campbell	497	16								0.30	−2.12	0.16	0	3					Lockmaster.
Paintsville	Johnson	620	4								0.43		0.20	0	4					A. L. Donta.
Pikeville	Pike	636	2	59.2		89	18	30	25	44	0.34	−2.52	0.34	0	1					U. S Weather Bureau.
Pippapass	Knott	1035	4	60.3		93	18	29	25	49	0.00		0.00	0	0	27	1	3	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	12					26	25		0.47	−3.06	0.29	0	3					R. W. Jones.
Ravenna, Lock 12	Estill	631	19								0.40	−2.49	0.23	0	3					Lockmaster.
Richmond	Madison	926	41	61.8	+ 2.8	86	17†	37	25†	39	0.60	−2.37	0.30	0	3	25	6	0		J. W. Crooke.
Valley View, Lock 9	Madison	571	25								0.18	−2.87	0.13	0	1					Lockmaster.
Vanceburg, Dam 32	Lewis	525	21								0.28	−2.72	0.18	0	3					Lockmaster.
Williamsburg	Whitley	929	41	60.1	+ 0.6	89	19	27	25	48	0.31	−2.53	0.19	0	2	21	8	2		Wadely Wert,
Willow, Lock 13	Lee	646	18								0.22	−2.80	0.16	0	2					Lockmaster.
Winchester	Clark	961		59.8		85	12†	32	29	35	0.23		0.15	0	3					Airway Station.
State averages and extremes				60.1	+ 1.9	95	5	24	25	55	0.48	−2.24	2.42	0	2	24	4	3	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
Reference letters, ª, ᵇ, °, appearing in the table indicate number of days missing; for example, b represents two days, etc.
+ Also on other dates. †† Received too late to be included in means and summaries.
¶ Post-office addresses: — Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Onconta, California, Ky.

** Precipitation by U. S. Engineers.
‡ Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for October, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G																			.64				.15									0.76
Calhoun G																																
Earlington G	T.																		.90				12									1.02
Fords Ferry Dam 50‖ O						T.							T.						.15	.42	.63		.04	.05								0.69
Gilbertsville‡ T																			.24	.39			.10	.05								0.78
Greenville G													T.						.78				.10									0.88
Hartford G					T.								.01						.39	.02			.10									0.52
Henderson O													.03						.88	.04			.10									1.05
Hopkinsville‡ C																			.07	.18				.08								0.33
Lovelaceville M																			1.00													1.00
Mayfield M					T.														.66	.02			.15									1.03
Murray T																			2.42	.02			.18									2.62
Owensboro‖ O			T.										T.						.46				.22									0.68
Owensboro, Dam 46‖ O																				.43	T.		T.	.13								0.56
Paducah O																			.74	.54	T.		.03									1.31
Paducah (near) O																			.90													0.90
Princeton G					T.														.83				.15									0.98
Ramsey, Lock No. 2‖ G	.07												.08	.02						.71					.20					.23			1.08
Russellville‡ G																				.20												0.43
Uniontown, Dam 49‖ O													.20						.29	.30	.04		.02									0.85
Central Division																																
Addison, Dam 45‖ O													.03						.28	.04			.20									0.55
Anchorage O				T.															.23				.24	.08								0.55
Bowling Green‖ G	.05																			.48				.39								0.92
Brownsville, Lock No. 6‖ C			.03																.12					.14								0.29
Burnside‖ C													.14							.17				T.								0.31
Carrollton Lock No. 1‖ K																								.42								0.42
Cold Spring, Dam 35‖ O					T	.06								T.					T.	.11	T.			.10								0.27
Danville‖ K													T.							.21				.02								0.23
Dix Dam, Bargin K																			.26													0.26
Eadsville C																				.13			.03									0.16
Eubank C																																0.00
Frankfort, Lock No. 4‖ K																				.08				.06								0.14
Gest, Lock No. 3‖ K																				.10				.08								0.18
Glasgow G																				.40	.20			T.								0.60
Grant, Dam 38‖ O																				.04	T.			.20								0.24
Greensburg‡ G																			.32					.02								0.34
High Bridge, Lock No. 7‖ K																				.33				T.								0.33
Irvington O																			.22	T.			.13	.05								0.40
Lancaster‡ K													.10						.28				.05									0.43
Leitchfield‡ G	T.																			.20				.26								0.46
Lexington *** K																			.34	.04			T.									0.88
Little Hickman, Lock No. 8‖ K																				.20												0.20
Lockport, Lock No. 2‖ K																				.22												0.22
LOUISVILLE*** O				T.	.04								T.						.15	T.			.30									0.49
Do, Bowman Field O				T.	T.	T.							T.						.03	.08			.22	.07								0.40
Mammoth Cave G	T.		T.											T.						.41				.15								0.56
Monticello‖ C																				.18	.02											0.20
Munfordville‖ G																				.82				.15								0.97
St. John S																			.33	.02			.07	.19								0.61
Salvisa, Lock No 6‖ K																			.18													0.18
Shelbyville S					T.								.04						.15	.02			T.	.17								0.38
Shepherdsville S						T.													.32				.26									0.58
Smith's Grove G																			.25	.27			.08	.12								0.72
Stearns C																				.26				.14								0.40
Taylorsville O																																
Tyrone, Lock No. 5‖ K																				.20				T.								0.20
Williamstown L																																0.00
Woodbury, Lock No. 4‖ G				T									.04							.14				.28									0.46
Eastern Division																																
Annville‖ C														T.						.37				.15									0.52
Ashland‡ O														.13						.22	.05			.11	.02								0.53
Berea K													.04							.23				.04									0.31
College Hill, Lock No. 11‖ K														.20						.12				.04									0.36
Cumberland L																																
Cynthiana‡ L																																
Falmouth‖ L						.23							T.							.12				.01									0.36
Farmers‡ L						.11														.23													0.34
Fleemingsburg‡ L						.51														.19													0.70
Ford, Lock No. 10‖ K						T.							T.	T.						.23	T.			T.									0.23
Grayson O																																
Greenup, Dam 30‖ O						T.								.13						.25	.03			.09									0.50
Hazard‖ K																				.22	.10												0.32
Heidelberg, Lock No. 14‖ K																				.23	T			.12									0.35
Jackson‡ K																				T.													T.
Jenkins‡ B																				.17	.22			.02	T.								0.41
Louisa‡ B																				.15				.12									0.27
Maysville, Dam 33‖ O					T.	.05							T.							.21				T.									0.26
Middlesboro C																																0.00
Mount Sterling L																																
Oneida‡ K																			.29					.11									0.40
Oneonta Dam 35‖ O						.09								T.						.16	T.			.05									0.30
Paintsville‖ B						.05								T						.20	.12			.09									0.46
Pikeville B						T.														.31				T.									0.34
Pippapass K																																0.00
Quicksand‡ K						.05														.29				.13									0.47
Ravenna, Lock No. 12‖ K						T.								.12						.23				.05									0.40
Richmond K													.25							.30				.05									0.60
Valley View, Lock No. 9‖ K													.18																				0.13
Vanceburg, Dam No. 32‖ O						.08								.02						.18													0.28
Williamsburg‡ C																				.19	.12												0.31
Willow, Lock No. 13‖ K																				.16			.06										0.22
Winchester K														T.						.15	.04			.04									0.23

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours endingat the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for October, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	75	75	79	84	90	74	73	82	88	83	84	84	81	81	84	86	87	86	72	60	69	78	69	58	72	76	67	65	71	76	78	77.0
	Minimum	52	42	44	49	52	56	45	42	50	50	47	56	60	40	42	43	44	46	58	47	36	44	41	32	31	42	86	33	31	85	36	43.9
Calhoun	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Earlington	Maximum	76	76	78	82	90	84	73	83	87	86	88	84	80	83	86	86	86	89	79	58	70	79	72	58	72	73	69	68	69	75	78	77 9
	Minimum	48	42	44	48	54	57	45	44	52	50	47	57	64	40	44	43	47	47	58	47	38	47	40	33	40	53	35	33	32	35	37	45.2
Greenville	Maximum	77	78	80	85	92	85	75	85	91	85	88	85	82	81	85	89	87	87	78	60	70	80	69	60	73	79	70	65	68	75	80	78.8
	Minimum	45	40	41	45	50	55	44	39	48	48	45	56	59	39	40	41	45	44	58	45	35	47	40	30	32	46	34	31	30	33	36	42.6
Henderson	Maximum	79	77	80	86	91	75	76	88	90	87	90	83	77	86	86	89	90	85	73	62	71	75	66	61	72	84	68	66	72	76	82	78.0
	Minimum	48	42	43	48	54	52	46	44	52	51	47	56	61	39	44	42	45	48	56	43	40	50	36	30	38	50	48	34	33	35	35	44.9
Hopkinsville	Maximum	77	77	80	84	92	76	75	75	89	86	87	85	83	83	86	87	89	88	69	59	71	79	63	60	74	79	76	66	71	78	82	78.1
	Minimum	50	47	45	46	53	47	42	48	52	51	55	62	41	45	48	48	47	63	48	32	38	45	33	27	37	34	35	37	40	38	44.6
Lovelaceville	Maximum	77	76	80	86	92	81	81	84	88	85	88	83	82	85	84	87	87	87	81	61	70	76	70	69	73	78	76	68	68	74	79	78.9
	Minimum	54	47	43	46	52	60	46	44	47	54	51	49	60	38	44	43	50	53	56	45	32	44	44	26	30	43	35	31	33	36	37	44.5
Mayfield	Maximum	80	78	82	87	94	80	77	86	89	87	91	86	83	84	86	87	88	89	78	61	72	79	72	61	75	80	71	68	70	75	81	79.9
	Minimum	54	49	47	53	57	60	49	49	53	57	55	56	61	45	48	48	53	55	55	45	37	46	41	29	35	46	44	38	39	41	41	47.9
Murray	Maximum	78	80	81	85	92	79	81	83	82	85	89	84	82	81	84	87	87	88	75	69	70	75	65	59	72	77	69	69	67	73	80	80.9
	Minimum	40	55	60	64	65	61	47	50	54	57	55	54	57	45	49	52	54	55	58	59	42	48	42	31	42	50	47	41	39	42	44	51.8
Owensboro	Maximum	73	78	76	80	87	74	70	80	84	86	87	86	77	78	81	82	87	85	70	56	78	78	68	56	73	78	66	68	67	78	74	76.0
	Minimum	51	53	45	49	55	55	47	43	50	51	51	59	62	41	46	47	46	45	44	46	35	48	43	27	31	41	41	36	37	40	38	44.8
Paducah	Maximum	85	80	79	82	88	95	78	79	84	91	88	89	86	82	87	87	87	88	90	66	66	72	78	58	62	75	79	70	62	72	76	79.4
	Minimum	58	54	46	51	54	57	54	46	50	52	53	54	57	50	46	45	49	51	55	50	38	44	46	30	32	42	40	36	37	38	38	46.5
Paducah (near)	Maximum	80	80	83	88	95	84	80	87	91	89	90	84	83	87	90	89	90	89	81	69	72	77	68	63	75	81	73	70	70	73	83	81.2
	Minimum	51	45	48	47	55	59	50	44	49	53	52	52	61	39	44	44	47	50	56	45	40	51	43	29	37	48	36	32	36	37	37	45.5
Princeton	Maximum	76	76	78	85	91	76	75	83	89	86	88	85	82	84	87	88	88	89	70	60	70	79	68	59	73	77	69	68	71	77	80	78.1
	Minimum	53	48	49	50	55	59	49	46	51	54	52	54	63	43	46	46	49	49	57	48	35	42	41	31	30	40	37	37	36	40	40	46.1
Russellville§§	Maximum	75	74	79	82	89	74	70	82	86	81	82	84	80	72	78	84	83	74	69	49	65	72	47	53	65	70	61	61	62	72	73	72.6
	Minimum	49	41	43	45	52	59	45	40	41	49	50	56	60	41	42	45	48	47	62	48	36	37	45	30	32	34	59	32	32	33	46	43.8
Central Division.																																	
Anchorage	Maximum	73	73	74	76	83	69	69	73	52	80	82	81	80	82	85	87	87	88	70	56	70	78	68	57	72	75	70	65	70	71	75	74.8
	Minimum	42	45	41	43	50	58	40	39	46	45	48	61	54	40	43	44	45	40	55	45	34	41	41	33	29	40	34	33	31	41	33	42.4
Bowling Green	Maximum	76	78	75	79	87	77	71	78	74	80	79	81	80	79	82	80	81	82	72	65	65	65	65	58	68	75	68	62	67	71	72	74.2
	Minimum	51	48	48	53	54	62	49	44	52	54	57	57	62	58	49	49	52	53	62	51	40	44	45	32	35	43	44	40	38	43	43	48.9
Danville	Maximum	72	72	75	77	85	72	69	80	84	79	81	83	78	78	80	83	83	78	73	56	67	74	55	53	63	72	62	59	59	63	69	70.3
	Minimum	41	40	39	40	50	54	38	34	50	44	44	51	57	42	38	43	44	41	52	41	32	41	47	35	30	40	39	33	33	36	31	41.5
Dix Dam	Maximum	72	75	76	78	87	82	70	81	84	82	84	85	80	80	83	81	87	87	80	65	67	75	72	69	71	76	73	69	71	72	75	77.1
	Minimum	44	42	43	43	53	57	42	37	51	46	50	53	62	44	42	43	44	43	54	49	37	46	53	35	38	46	43	34	42	35	34	44.7
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	78	74	79	80	88	74	68	82	85	86	86	86	81	81	83	83	88	88	77	65	70	76	71	59	71	78	68	64	70	70	75	76.5
	Minimum	42	41	40	41	54	55	38	36	41	44	45	49	58	41	40	41	42	43	51	48	35	37	50	37	28	36	36	32	30	35	31	41.2
Glasgow	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	83	82	85	84	84	86	77	63	66	72	69	49	68	75	75	64	69	63	68	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	61	41	38	40	43	43	53	50	34	45	48	35	28	42	31	30	31	35	31	.....
Greensburg	Maximum	75	75	78	80	88	75	72	82	87	81	84	85	82	80	85	83	85	86	80	64	68	76	68	59	72	77	70	68	69	74	74	76.8
	Minimum	42	37	38	42	47	52	41	33	43	43	47	49	56	39	36	37	39	40	50	48	30	37	47	33	21	32	31	27	27	31	30	39.0
Irvington	Maximum	71	72	73	77	84	75	69	79	83	80	81	77	80	77	81	81	82	83	73	62	67	75	69	56	69	73	65	60	66	67	71	73.5
	Minimum	48	50	47	49	55	57	44	44	54	53	60	62	58	59	45	50	49	50	61	46	40	48	42	33	37	47	45	39	35	42	41	48.1
Leitchfield	Maximum	74	75	78	80	88	77	71	82	87	82	83	83	81	80	84	84	85	85	76	63	69	76	68	55	72	76	70	62	70	74	77	76.5
	Minimum	50	45	45	48	55	57	44	41	50	50	49	57	61	46	45	45	47	48	63	46	36	43	41	34	33	42	41	37	36	42	39	45.7
Lexington	Maximum	72	73	76	78	85	64	69	81	80	79	85	86	78	80	83	84	87	87	78	55	66	75	70	58	68	74	64	60	69	68	74	74.4
	Minimum	43	45	43	43	55	46	39	39	51	48	51	56	52	45	46	50	52	50	55	40	36	43	42	36	32	43	36	36	37	41	38	44.3
Louisville	Maximum	71	72	74	74	83	63	68	78	82	82	83	82	76	78	83	83	83	84	69	55	66	76	68	55	68	73	61	60	66	66	69	72.4
	Minimum	51	49	47	50	59	54	43	47	60	55	59	59	59	50	52	54	58	54	53	45	44	47	42	38	42	52	48	41	38	43	42	49.8
Do. Bowman Field	Maximum	72	74	74	78	84	63	70	79	82	81	85	83	78	78	85	85	85	86	68	54	67	76	64	53	70	74	64	60	64	66	73	73.1
	Minimum	47	46	44	46	56	57	42	45	53	52	49	57	65	44	48	48	48	48	65	48	39	45	47	37	35	48	41	37	35	40	36	46.7
Mammoth Cave	Maximum	74	74	78	80	88	77	71	81	85	80	80	83	79	79	83	83	85	85	73	63	68	75	65	57	71	77	66	64	69	74	77	75.2
	Minimum	43	37	40	44	47	56	41	35	46	46	46	55	60	39	38	41	43	43	55	41	31	44	39	35	29	45	35	29	29	35	34	41.3
St. John	Maximum	77	79	81	81	88	86	73	83	86	85	86	87	86	82	84	85	84	84	79	68	70	74	71	58	71	76	72	62	68	70	74	77.8
	Minimum	49	49	53	44	55	45	43	46	51	46	51	47	51	61	42	44	45	44	55	45	32	41	41	32	28	39	34	33	31	40	35	43.8
Shelbyville	Maximum	71	73	74	77	85	73	69	79	82	80	86	84	78	80	82	85	86	87	69	60	69	75	67	57	69	75	64	63	67	67	73	74.4
	Minimum	43	42	42	42	50	53	36	38	48	49	49	53	57	42	42	48	49	49	58	43	33	41	42	33	30	40	39	33	33	38	35	43.0
Smith's Grove	Maximum	72	76	78	84	89	70	72	83	87	83	85	82	81	84	85	84	85	84	74	57	69	76	58	59	70	78	67	65	71	76	80	76.3
	Minimum	48	39	41	44	47	57	45	41	46	47	46	50	58	40	45	42	44	42	55	47	35	42	42	33	28	35	38	32	30	35	38	42.6
Stearns	Maximum	70	70	75	75	83	76	68	76	82	77	82	82	78	76	80	80	83	85	66	58	64	71	69	58	68	70	63	60	64	72	76	73.8
	Minimum	47	42	41	47	49	59	45	39	48	50	51	55	55	51	45	49	49	49	54	44	40	51	42	30	32	40	46	37	37	43	40	45.8
Williamstown	Maximum	77	75	77	78	85	70	64	76	77	77	82	85	78	76	79	80	82	82	66	66	75	70	56	68	72	66	57	66	69	70	78.5	
	Minimum	44	43	43	49	53	54	37	42	52	50	53	56	64	49	49	51	53	55	68	44	38	43	44	36	35	46	37	37	37	36	37	46.2
Eastern Division.																																	
Ashland	Maximum	70	69	72	74	81	67	68	79	74	77	81	81	79	75	78	81	85	86	84	74	66	74	72	60	69	79	70	55	69	65	68	73.7
	Minimum	42	42	43	45	44	52	40	37	47	44	43	51	54	42	44	45	49	49	48	34	42	46	48	32	37	41	33	38	36	33	33	43.0
Berea	Maximum	73	70	73	73	83	76	76	80	72	80	83	83	78	76	80	80	83	85	81	67	65	72	69	66	68	78	69	59	66	68	72	74.3
	Minimum	40	45	43	41	55	56	36	54	45	48	52	59	57	44	42	50	49	51	59	47	36	47	55	40	35	48	41	31	32	36	34	45.4
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	73	75	76	80	84	81	81	89	61	83	80	84	84	77	78	85	83	81	88	66	66	65	72	65	65	62	79	66	64	71	65	80 75.1
	Minimum	40	38	37	39	43	50	39	34	44	40	43	50	53	47	37	64	42	42	46	45	32	38	46	42	26	29	31	27	25	33	57	40.7
Heidelberg	Maximum	71	72	75	78	85	71	68	77	80	78	80	83	80	78	81	81	84	86	84	71	76	78	69	62	69	80	71	60	69	72	75	75.4
	Minimum	44	42	52	43	50	54	42	35	45	43	43	51	53	44	37	40	41	43	46	49	36	34	42	43	27	30	35	32	31	35	31	41.1
Maysville	Maximum	70	70	74	75	84	67	67	77	76	77	82	85	78	74	79	83	84	87	80	66	67	76	70	64	68	74	64	64	65	67	73	73.9
	Minimum	40	43	43	45	47	52	37	38	47	46	47	50	57	46	44	47	46	47	50	47	34	42	52	31	45	37	31	34	35	31	34	43.2
Middlesboro	Maximum	71	72	72	74	80	78	71	74	80	77	80	78	75	78	79	79	80	82	82	75	61	68	68	65	..	70	68	60	69	71	73	*73.7
	Minimum	45	41	41	41	41	53	46	39	41	48	42	49	47	47	48	39	41	44	44	54	35	31	40	45	..	25	38	30	31	35	29	*40.8
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	69	72	73	76	84	69	70	78	78	80	82	84	75	78	84	87	87	80	87	64	62	72	70	63	68	76	68	63	67	68	72	74.5
	Minimum	50	44	48	48	46	53	45	40	45	46	47	51	48	50	46	43	44	44	47	62	39	35	42	47	30	32	41	37	36	38	36	43.9
Pippapass	Maximum	74	78	80	80	87	77	74	82	86	90	88	88	80	83	88	88	90	93	91	77	66	77	72	69	72	82	68	64	73	76	78	79.7
	Minimum	45	40	42	43	43	58	45	36	46	45	40	50	49	45	40	40	42	44	47	44	36	35	40	46	29	33	40	34	35	35	32	40.9
Quicksand	Maximum	43	41	41	42	44	51	34	36	42	42	41	49	48	43	38	40	40	41	41	45	38	32	40	35	26	28	33	33	32	29	32	39.1
	Minimum	43	41	41	42	44	51	34	36	42	42	41	49	48	43	38	40	40	41	41	45	38	32	40	35	26	28	33	33	32	29	32	39.1
Richmond	Maximum	75	73	76	75	83	67	72	80	82	80	85	85	75	80	83	85	88	88	86	55	68	75	72	60	70	76	66	62	70	68	74	75.1
	Minimum	45	47	47	47	56	58	43	41	56	53	54	62	58	50	50	53	52	53	62	50	38	47	55	40	37	48	42	37	37	43	42	48.5
Williamsburg	Maximum	84	78	74	78	87	76	84	85	84	82	84	85	82	81	82	84	85	87	84	72	67	71	78	68	75	69	70	69	71	76	76	78.2
	Minimum	48	43	42	47	47	54	43	41	46	48	55	53	51	41	43	43	43	45	37	39	37	35	27	33	34	30	30	33	32	29	32	42.0
Winchester	Maximum	71	72	75	76	83	64	67	79	80	79	83	85	79	78	81	81	85	85	81	51	66	73	69	58	68	77	63	59	67	67	73	73.4
	Minimum	44	47	45	45	55	54	39	39	53	52	53	58	62	50	49	47	51	52	57	45	36	44	54	39	35	44	41	34	32	41	40	46.3

§§ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs
*, †, ‡ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 11-25-38 1100

Nat. Hist.

1.05
AE
9
43
9.11

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., NOVEMBER, 1938 No. 11

GENERAL SUMMARY.

Except in one short interval, temperatures above normal prevailed during the first three weeks. The dryness and high temperature of the preceding month carried over into the first week. Forest and brush fires of unusual magnitude for this State developed in the first three days. Fanned by high winds they threatened extensive damage, especially in the eastern mountain section; but were brought under control or extinguished by the rains of the 4th and 5th. The rains of the first decade started more vigorous growth of fall grains that were up and insured the germination of the last seedlings. As the remaining grain came up, it was found that there were spots in many fields where the seed had sprouted and died. This result of the dry weather showed more generally on the uplands, with the thin clays or gravelly soils. Pastures had become very short, and these rains were not sufficient to cause much improvement. Although they alleviated the stock water shortage, they did not entirely relieve it.

Heavy and prolonged rainfall on the 18th and 19th provided the first period favorable for handling tobacco. Stripping had made little or no progress before this rain, but proceeded rapidly afterwards. This heavy and general rainfall also replenished small streams and furnished ample water for livestock in all districts. During the few warm days that followed this rain, fall grains grew rapidly and improved generally. The early sown and much of the later seedings attained good size to resist the winter. A sharp change to colder on the 23d was followed by nearly a week of abnormally low temperature that brought cessation of all growth. Good drainage of the top soil before the hard freezes occurred prevented damage to grain from lifting. Light snow that accumulated on the ground and remained during the coldest weather afforded some protection to grains in the northern and eastern districts.

Corn gathering was far ahead at the beginning of the month, and advanced rapidly to completion on most farms during the favorable weather of the first half.

TEMPERATURE.

The temperature averaged considerably above normal. Daily means 10° to 15° in excess of the seasonal average occurred frequently during the first three weeks, with maxima of 70° to 80° on several days. Decidedly cold weather followed from the 23d to 28th, when daily means were 10° to 20°, below normal and minimum temperatures ranged from 5° to 15°. Extremes for the State were 83° on the 7th at Ashland and 2° above zero on the 25th at Heidelberg.

PRECIPITATION.

Precipitation averaged near normal, but varied considerably in the different parts of the State. In general it increased sharply from northwest to southeast across the State. As a rule precipitation in the western half of the State and in most northeastern counties ranged from 2.0 to 3.5 inches. It was below normal in most counties in these areas. From central districts eastward precipitation ranged from 4.0 to 6.0 inches, and was generally above normal. Amounts for the State varied between 1.77 inches at Murray and 8.09 inches at Quicksand. The total snowfall was a trace to 1.0 inch in the extreme western counties, but it increased eastward to 10.0 inches in some eastern mountain districts. It occurred mainly on the 24th, but continued at intervals until the 27th. Rain was light to heavy in the periods, 4-5th, 7-9th, and 17-20th. It was generally light on the 13-14th. The light to heavy precipitation of the 23d-27th was largely snow. The heaviest rains occurred on the 18th and 19th, when several stations reported more than 2.0 inches in 24 hours. Thunderstorms occurred at some stations on the 7th, 17th, and 18th.

MISCELLANEOUS.

Nov. 4.—In addition to fanning forest fires, the wind caused minor damage to roofs, trees, windows, and wire systems throughout the State.

Rivers.—Pool stages, with only slight fluctuations, prevailed during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.11	30.55	27	29.43	4	10.8	33	se.	4	72	52	54	65
Cincinnati ..... Ohio	30.14	30.49	9	29.61	4	8.9	32	sw.	4	80	55	58	60
Evansville ..... Ind.	30.12	30.51	27	29.47	4	11.0	44	sw.	4	73	50	54	63
Louisville ..... Ky.	30.12	30.51	28	29.58	4	11.9	46	se.	4	77	54	60	62

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation. Average.	Average snowfall	Number of days. Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	43.1	85	10	6.04	....	..	..	..	..
1890	48.6	81	19	4.87	....	..	..	..	..
1891	43.5	75	10	6.04	....	..	..	..	..
1892	42.8	78	9	3.85	....	..	..	..	..
1893	44.3	79	− 2	3.12	....	..	..	..	..
1894	43.3	80	8	1.32	....	4	..	..	..
1895	45.8	85	16	4.29	....	7	10	7	13
1896	49.3	80	11	5.01	....	8	10	8	12
1897	47.8	78	12	4.69	T.	10	13	7	10
1898	43.2	80	10	2.79	0.5	8	12	7	11
1899	49.8	79	20	2.12	T	8	11	7	12
1900	47.0	83	15	7.78	1.0	8	15	6	9
1901	41.8	82	11	1.52	T.	4	19	5	6
1902	53.4	90	20	4.42	0.3	11	11	6	13
1903	42.5	81	5	3.01	2.0	8	12	7	11
1904	44.7	79	14	0.89	T.	3	15	6	9
1905	46.4	79	14	3.55	T.	7	15	6	9
1906	46.1	93	11	5.02	2.3	7	13	6	11
1907	44.2	75	15	3.49	0.1	7	14	5	11
1908	48.6	80	8	2.61	0.2	7	14	7	9
1909	54.7	86	19	2.29	T.	6	15	6	9
1910	41.1	78	11	2.04	T.	6	16	5	9
1911	41.6	85	9	4.51	0.8	8	10	4	16
1912	45.2	82	10	1.22	0.2	4	16	5	9
1913	50.8	81	8	3.25	0.9	9	12	5	13
1914	46.9	83	5	1.23	0.4	5	18	5	7
1915	49.8	85	16	4.80	0.4	9	15	7	8
1916	47.8	83	8	1.52	T.	4	20	4	6
1917	44.3	78	11	1.23	0.1	5	14	5	11
1918	46.1	77	19	1.90	0.0	6	14	5	11
1919	47 4	78	16	7.31	0.0	9	15	5	10
1920	44.7	79	10	2.21	2.8	8	12	5	13
1921	49.8	79	20	7.56	T.	12	11	5	14
1922	48.3	87	10	1.93	0.4	6	16	6	8
1923	46.4	75	16	3.65	0.0	9	14	5	11
1924	47.7	83	13	1.82	0.1	9	11	7	12
1925	44.9	73	8	5.13	0.1	7	12	6	12
1926	42.9	80	0	3.40	2.0	9	10	7	13
1927	51.3	82	13	5.01	0.1	10	9	7	14
1928	46.8	78	10	3.93	T.	10	10	6	14
1929	44.6	81	− 9	4.63	3.0	11	8	6	16
1930	47 1	86	− 4	1.82	1.0	10	12	6	12
1931	55.0	84	19	3.52	T.	10	13	5	12
1932	43 8	78	11	2.71	0.4	9	14	5	11
1933	45.5	85	10	1.54	T.	5	6	11	13
1934	50.5	84	14	2.85	T.	7	15	6	9
1935	47.3	85	11	3.86	T.	11	7	6	17
1936	42.9	81	10	3.50	3.4	5	14	8	8
1937	43.2	82	6	1.68	0.6	9	12	6	12
1938	47.9	83	2	3.68	3.7	9	16	5	9
Period	46 5	93	− 9	3.42	0.6	5	14	8	8

50-year averages.

Climatological Data for November, 1938.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation in inches			Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																		
Beaver Dam	Ohio	441	26	48.5	+ 1.6	79	1†	12	27	39	2.26	−0.92	0.98	4.0	8	16	5	9	sw.	Eldred G. Young.
Calhoun	McLean	437	34	45.0	− 3.3	79	1†	9	28	44	3.29	−0.55	2.00	1.0	5	15	6	9	.....	R. C. Bennett.
Earlington	Hopkins	420	44	50.3	+ 2.3	80	1†	10	27	40	3.83	+0.21	2.90	T.	9	19	3	8	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	9	.....	.....	.....	.....	.....	.....	.....	2.58	−0.59	1.20	0.3	9	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	1.91	.....	1.17	.....	6	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	21	48.4	+ 0.6	81	7	8	27	41	2.52	−1.02	1.08	2.0	8	19	4	7	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	3.44	.....	2.39	4.0	9	15	6	9	.....	W. R. Carson, Sr.
Henderson	Henderson	382	16	48.4	.....	80	1	10	27	38	2.64	−1.15	1.12	1.0	8	14	12	4	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	42	48.8	+ 0.8	82	1	11	27	42	1.97	−2.05	0.35	2.5	7	18	8	4	s.	W. K. Morris.
Lovelaceville	Ballard	479	9	48.1	+ 0.6	79	1	14	26	40	3.80	+0.44	2.80	1.0	5	19	3	8	s.	Blaine Malone.
Mayfield	Graves	364	29	49.4	+ 0.3	81[a]	1	12[a]	27	35[a]	2.11	−1.77	1.01	T.	6	18	5	7	s.	Mrs. Joe Payne.
Murray	Calloway	412	12	49.7	+ 1.6	80	1	14	27	35	1.77	−1.63	1.23	0.6	7	16	4	10	s.	Pat W. Wear.
Owensboro	Daviess	420	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	10	.....	.....	.....	.....	.....	.....	.....	2.62	−0.19	1.72	1.0	8	.....	.....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	46.8	− 2.3	82[c]	1	16[c]	27†	40[c]	3.59	−0.24	1.82	0.5	7	19	3	8	.....	U. S. Engineers.
Paducah (near)	McCracken	390	18	50.2	.....	82	1	13	27	40	3.39	−0.55	2.38	T.	6	18	6	6	.....	Joe Lagore.
Princeton	Caldwell	529	31	49.0	+ 1.7	81	1†	12	27	40	2.74	−0.55	1.64	0.5	9	14	5	11	s.	Dr. W. L. Cash.
Rumsey, Lock 2 ‡	McLean	384	21	.....	.....	.....	.....	.....	.....	.....	3.08	−0.44	2.07	1.0	10	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	25	.....	.....	75[f]	7	10[f]	27	41[f]	2.65	−0.63	1.32	3.5	6	.....	.....	.....	.....	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	.....	.....	.....	.....	.....	.....	.....	1.94	−0.82	0.63	T.	10	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	.....	.....	.....	.....	.....	.....	.....	2.82	+0.02	1.66	0.5	10	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	46.8	+ 2.0	81	1†	8	28	44	3.10	−0.14	1.19	6.0	8	17	3	10	se.	C. E. Barret.
Bowling Green	Warren	500	42	49.8	+ 1.9	78	2†	15	27	34	4.05	+0.41	1.38	2.0	7	16	4	10	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6 ‡	Edmonson	410	21	.....	.....	.....	.....	.....	.....	.....	3.89	−0.06	1.50	1.5	10	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	706	47	.....	.....	.....	.....	.....	.....	.....	4.96	+1.50	2.00	6.0	9	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	.....	.....	.....	.....	.....	.....	.....	5.31	+0.38	1.01	2.5	8	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	.....	.....	.....	.....	.....	.....	.....	2.21	−1.03	0.76	4.0	12	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	14	46.8	.....	79	1†	11	27	42	3.86	+0.85	2.19	2.7	10	17	5	8	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	14	49.6	+ 2.0	80	1	15	25†	37	3.71	+0.58	2.15	3.0	7	18	4	8	.....	Kentucky Utilities Co.
Eadsville	Wayne	672	.....	.....	.....	.....	.....	.....	.....	.....	4.42	.....	2.37	3.0	7	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	43	.....	.....	.....	.....	11	25	.....	5.06	+1.67	2.35	0.5	8	18	1	11	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	42	47.4	+ 0.8	82	1	10	25	50	2.75	−0.24	1.37	3.5	9	15	4	11	se.	Lockmaster.
Gest, Lock 3	Henry	490	28	.....	.....	.....	.....	.....	.....	.....	2.89	−0.35	0.96	1.9	10	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	7	48.4	− 0.1	76	12†	13	25†	40	4.19	+0.24	1.61	2.0	7	18	7	5	s.	L. E. Turner.
Grant, Dam 38	Boone	506	13	.....	.....	.....	.....	.....	.....	.....	4.14	+1.37	1.05	.....	11	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	45	47.0	+ 1.3	80	2	9	28	47	4.42	+0.87	2.19	3.5	7	8	1	21	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	.....	.....	.....	.....	.....	.....	.....	3.16	−0.02	1.81	.....	10	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	40	48.4	+ 1.4	78	1†	13	27	35	2.41	+0.16	1.45	0.2	6	17	3	10	sw	W. J. Piggot.
Lancaster	Garrard	1032	12	.....	.....	.....	.....	.....	.....	.....	5.18	+1.87	2.50	.....	11	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	42	48.9	+ 2.1	79	1†	9	27	38	3.41	−0.53	1.33	4.0	10	16	6	8	s.	H. H. Willis.
Lexington	Fayette	989	54	46.8	+ 2.0	80	1	11	25	37	3.60	+0.26	1.78	5.0	11	16	4	10	.....	U. S. Weather Bureau.
Little Hickman, Lock 5 ¶	Jessamine	560	28	.....	.....	.....	.....	.....	.....	.....	2.15	−0.99	0.65	4.0	7	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	.....	.....	.....	.....	.....	.....	.....	3.43	+0.69	1.15	2.5	7	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	65	48.6	+ 1.9	78	2	13	27	35	3.13	−0.48	1.35	1.5	9	15	7	8	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	.....	48.4	.....	80	1	15	27	40	2.14	.....	0.52	.....	10	.....	.....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	800	3	47.8	.....	82	2	9	27	43	3.66	.....	1.40	2.8	11	18	3	9	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	4.81	.....	2.63	5.2	8	12	4	14	.....	E. O. Cooper
Munfordville	Hart	600	9	.....	.....	.....	.....	.....	.....	.....	3.88	+1.22	1.67	2.3	6	.....	.....	.....	.....	Mrs. M. W. Price.
St. John	Hardin	777	42	48.0	+ 2.2	79	1†	6	27	40	3.79	+0.24	1.38	1.0	12	15	8	7	.....	Sisters of Loretto.
Salvisa, Lock 6 ¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	3.51	+0.21	1.80	.....	8	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	45	46.4	+ 1.6	78	1	7	27	40	3.60	+0.29	1.57	3.5	10	16	0	14	s.	Willa S. Ratta.
Shepherdsville	Bullitt	500	1	.....	.....	.....	.....	.....	.....	.....	4.10	.....	1.50	1.9	9	17	9	4	sw.	A. McLeod.
Smith's Grove	Warren	607	.....	47.1	.....	80	2†	10	26†	42	3.50	.....	1.43	T.	8	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	47.2	.....	78	1	11	27†	40	5.34	.....	2.86	5.0	11	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thad. Cheatham, Sr.
Tyrone, Lock 5 ¶	Anderson	524	20	.....	.....	.....	.....	.....	.....	.....	3.15	+0.26	1.68	2.5	11	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	35	48.0	+ 2.8	78	1†	7	27	41	2.55	−0.37	1.00	4.5	9	14	5	11	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	21	.....	.....	.....	.....	.....	.....	.....	3.21	−0.23	1.10	3.0	9	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Amuville	Jackson	.....	7	.....	.....	.....	.....	.....	.....	.....	5.23	.....	2.34	9.0	10	18	5	7	sw	W. A. Worthington.
Ashland	Boyd	584	21	47.2	+ 0.1	83	7	9	25	42	3.56	+0.66	1.11	7.0	9	19	2	9	w.	Lockmaster.
Berea	Madison	1070	35	48.6	+ 1.1	79	6	10	25	39	3.37	+0.03	1.00	6.5	7	18	3	9	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	.....	.....	4.51	+1.61	1.90	6.0	11	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	20	.....	.....	.....	.....	.....	.....	.....	3.15	+0.12	1.20	1.0	4	.....	.....	.....	.....	S. M. Hill.
Falmouth	Pendleton	600	49	.....	.....	.....	.....	.....	.....	.....	2.70	−0.16	1.16	3.4	10	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	31	.....	.....	.....	.....	10	25†	.....	4.77	+1.78	0.98	8.0	9	16	4	10	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	13	.....	.....	.....	.....	.....	.....	.....	3.31	−0.07	1.50	.....	9	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10 ¶	Clark	593	22	.....	.....	.....	.....	.....	.....	.....	3.72	+0.86	2.00	.....	10	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	8	.....	.....	.....	.....	.....	.....	.....	2.19	−0.44	0.98	10.0	6	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	18	.....	.....	.....	.....	.....	.....	.....	3.74	+0.72	1.20	7.0	9	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	14	.....	.....	.....	.....	.....	.....	.....	5.78	+2.73	2.05	7.0	10	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	3	47.6	.....	82	7	2	25	46	5.25	+2.34	2.28	7.0	10	19	3	8	sw.	Lockmaster.
Jackson	Breathitt	776	14	.....	.....	.....	.....	.....	.....	.....	7.51	.....	2.40	16.0	9	.....	.....	.....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	12	.....	.....	.....	.....	.....	.....	.....	4.19	+0.47	1.40	5.5	10	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	35	.....	.....	.....	.....	.....	.....	.....	4.50	+1.80	1.60	10.0	8	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	47.6	+ 2.4	82	7	5	25	41	3.06	+0.02	1.42	5.0	10	14	9	7	sw.	Lockmaster.
Middlesboro	Bell	1128	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. McKee.
Oneida	Clay	800	1	.....	.....	.....	.....	.....	.....	.....	4.75	.....	2.01	.....	5	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35 ¶	Campbell	497	16	.....	.....	.....	.....	.....	.....	.....	2.26	+0.55	0.98	3.0	11	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	.....	.....	.....	.....	.....	.....	.....	3.18	.....	1.74	11.4	11	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	2	48.4	.....	82	7	15	25	44	4.53	+1.57	1.78	F.	10	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	4	.....	.....	.....	.....	12	25	.....	6 28	.....	2.20	7.0	9	21	0	9	w.	Caney Run Com. Cen.
Quicksand	Breathitt	782	12	.....	.....	82[b]	6	11	26†	46[b]	8.09	+4.22	2.99	8.0	7	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	.....	.....	.....	.....	.....	.....	.....	4.47	+1.75	1.33	.....	9	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	41	49.9	+ 2.7	82	3	13	25	38	4.00	+0.71	2.20	5.0	9	19	0	11	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	.....	.....	.....	.....	.....	.....	.....	3.89	+0.43	2.16	5.5	9	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	.....	.....	.....	.....	.....	.....	.....	2.90	+0.02	1.10	5.5	11	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	41	45.9	− 1.7	81	7	11	25	47	5.25	+1.90	2.49	6.5	9	18	5	10	.....	Wadely West.
Willow, Lock 13	Lee	646	18	.....	.....	.....	.....	.....	.....	.....	4.70	+1.32	2.55	6.0	7	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	.....	45.6	.....	79	1†	9	24	49	4.90	.....	2.19	3.0	12	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	47.9	+ 1.4	83	7	2	25	50	3.68	+0.26	2.99	3.7	9	16	5	9	s	

All temperature data are taken from self-registering thermometers. * * Precipitation by U. S. Engineers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow
¶ Post-office addresses:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville, Ky.; Lock 10, Red House, Ky.; Oneonta, California, Ky.

Daily Precipitation for November, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G				.44			.32						.17			T.	T.	.98	.16				.06	.10		.03						2.26
Calhoun G				.42			.07						T.					2.00	.70					T.	.10							3.29
Earlington G				.68			.03		.02				.03				T.	2.90	.07				.09	.10		.66						8.83
Gilbertsville‖ T					.80		T.	.10					.05	.02				.32	1.20				.24	.02	T.	T.	.03					2.58
Greenville G				.49			.41						.40				T.	1.08	.15				.12									1.91
Hartford G				.83			.04	.01					.16			T.	T	2.39	.11				.04	.10		.10						2.52
Henderson O				.56			.22	.08					.04				T.	1.12					.11	.04		.22						3.44
Hopkinsville C					.24			.30					.04						.95				.26	.03		.38						2.64
Lovelaceville M				.55			.25						.10					2.80					.10	.25	.08							1.97
Mayfield M				.38			.50	.06					T.			T.	.03	1.01					.12	T.		T						3.80
Murray T				.20			.04	.01										1.32					.05	.25								2.11
Owensboro O																		1.23					.23	.05		.01						1.77
Owensboro, Dam 46‖ O					.39			.10						.02																		
Paducah‖ O					.85		T.	.58					.08			T.	T	1.05	1.32				.20	T		T	.01					2.62
Paducah (near) O				.34			.13						.22					2.38					.30	T.		T.						3.59
Princeton G				.58			.15						.04			T.	.04	1.64	.10				.06	.07		.66						3.39
Ramsey, Lock No. 2‖ G					.43			.08						.12			.06	.02	.07				.20	.04	.02	T.	.04					2.74
Russellville‖ G					.45		.06	.52											1.32				.05	.25								3.08
Uniontown, Dam 49‖ O					.24		.01	.31					.02			.01	.02	.37	.63				.29	.04		T.	T					2.65
Central Division																																1.94
Addison, Dam 45‖ O					.54			.09						.08				.24	1.66				.15	.03	.01	.01	.01					2.82
Anchorage O				.55				.45					.11			T.	.01	1.19	.25				T.	.42		.12						3.10
Bowling Green G					.62		.04	1.04						.40			T.	.65	1.38					.52								4.05
Brownsville, Lock No. 6‖ G					.55		T.	1.37						.06				.01	1.50				.06	.21	.02	.01	.01	T.				3.80
Burnside‖ C				1.03				.90	T.					.30			.10	.03	2.00	.05				.30	.20							4.56
Carrollton, Lock No. 1‖ C				.44				.67						.20				.62	1.01				.17	.10	.10							3.31
Cold Spring, Dam 36‖ O					.30		T.	.69	.08				.02	.08			T.	.11	.76	T.			.05	.04	.08	.01	.09	T.				2.21
Danville‖ K					.44		T.	.56	T.				.02	.17			.02	.04	2.19	T.				.33	.06		.03					3.86
Dix Dam, Burgin K				.41			.50											2.15	.03				.32	.10		.20						3.71
Eadsville C					.47			.50					.47	.09			.11		2.37					.41		T						4.42
Eubank C					.89			.70					.21				.15		2.85					.40	.18		.18					5.06
Frankfort, Lock No. 4‖ K					.44			.51						.07				.01	1.37				.04	.25	.03	T.	.03					2.75
Gest, Lock No. 3‖ K					.57		T.	.81					.06				.15	.11	.96				.11	.05	.03		.04					2.89
Glasgow G				.40				1.55					.10			T.	T.	1.64	.56				.04	.20			T					4.49
Greensburg‖ C					.47			.34					.01	.13		.75		1.05	.95				.10	.06	.03	T.	.03					4.14
High Bridge, Lock No. 7‖ K					.40			.46	.02					.19			.02	.08	2.19	.05			.08	.20		T						4.42
Irvington O				.45			T.	.25					.02				T.	1.45	.10				T.	.14		T.						3.16
Lancaster‖ K				.65			1.00					.08	.20			.04	.12	2.50	.05				.32	.11		.07						5.13
Leitchfield‖ G					.49		.38	.72					.11				T.	.02	1.33				.08	.14		.03	.11					3.41
Lexington *** K				.43			.03	.58					.22			.03	.03	1.38	.40				.08	.37		.05	T.					3.60
Little Hickman, Lock No. 8‖ K					.65			.65						.30			T.	.10	.10	T.			.05	.30								2.15
Lockport, Lock No. 2‖ K					.58		T.	.87					T.				.10	.45	1.15					.19		.09						3.43
LOUISVILLE*** O				.48			.46	.44					.08			T.	T	1.26	.09				.14	.12		.06	T.					3.13
Do. Bowman Field O				.39	.10		.04	.82					.03				T.	.24	.16				.13	.08		.13	T					2.14
Mammoth Cave G					.44			1.40					.02	.10			.02	.03	1.36				.06	.21	.01		.01					3.66
Monticello C					.90			.70						.20			.12	.05	2.63	.07				.14								4.81
Munfordville‖ G					.44			1.67					T.	.17			.03	T	1.27				T.	.30		T.						3.88
St. John S				.63	.59		.03	1.08					.05			.02	T.	1.38	.27				.12	.08		.02	.02					3.79
Salvisa, Lock No 6‖ K					.50			.55					.10	.10			T.		1.80				.07	.32	.07							3.61
Shelbyville S					.61			1.63					.06				.02	1.57	.02				.11	.18		.03	.01					3.64
Shepherdsville S					.52			.92					.33			T.	.02	1.50	.37				.13	.28		T.	.03					4.10
Smith's Grove G				.86				1.09					.32			T.	.03		1.43				.04	.21		.02						3.50
Stearns C					.82			.52	.15				.10			.09	.06	2.86	.22				.17	.88		.02	T					5.34
Taylorsville O																																
Tyrone, Lock No. 5‖ K					.42		T.	.55	.03					.03			.04	.08	1.68				.08	.18	.03		.03					3.15
Williamstown L					.40			.40									.10	1.00	.10				.07	.30		.08	.10					2.55
Woodbury, Lock No. 4‖ G					.58		.06	.90					.08	.15					1.10				.04	.20			.10					3.21
Eastern Division																																
Annville C					1.27			.32	.38					.11			.02		2.34	.08			.35	.33		.03						5.23
Ashland‖ O					1.11				.29					.81			.01		1.05	.84			.06	.38			.01					3.56
Berea K					.77			.70					.23				.01	1.00					.55			.11						3.37
College Hill, Lock No. 11‖ K					.96			.40	.25					.29			.03	.02	1.90	.03			.30	.30		.03						4.61
Cumberland C																																
Cynthiana‖ L					.39		.56						T						1.20				1.00	T								3.15
Falmouth‖ L					.32		T.	.54	T.					.11			T.	.11	1.16				.08	.25	.10	.07	.05	T.				2.79
Farmers‖ L						.94			.45					.81				.01	.98	.71				.40	.71		.20	.06					4.77
Flemingsburg‖ L					.55			.21	.80					.23					1.50	.02				.15		.32	.03					3.31
Ford, Lock No. 10‖ K					.69			.40					T.	.14			.11	.06	2.00	.04				.18	.09		.01	T.				3.72
Grayson O						.25								.03					.98	.15				.40	.40								2.19
Greenup, Dam 30‖ O					1.20				.38	.26				.24		T.	T.	.05	1.10	.25				.05	.21		T.						3.74
Hazard‖ K				.90	.50			.28						.45				.10	2.08	.45				.10	.80		.15					5.78
Heidelberg, Lock No. 14‖ K					1.12			.17	.34				T.	.85				.01	2.28	.26				.29	.44		.02					5.25
Jackson‖ K					2.00			.10	.33				T.	.25					2.40	.22				.40	1.20				.60			7.51
Louisa‖ B					.83		.30	.08	.36						.02				1.40	.41				.42	.30		.05					4.19
Maysville, Dam 33‖ O					1.05				.24					.08			.05		1.60	.38				.20	.90							4.50
Middlesboro C					.48			.12	.41				T.	.10			T.	.04	1.42	.12				.13	.20		.04					3.06
Mount Sterling L																																
Oneida‖ K					1.41				.43																							
Oneonta Dam 25‖ O					.34		T.	.55	.09					.18			T.	.02	2.01	.35			.55									4.75
Paintsville‖ B					1.16			.12	.30					.25			.07	.04	.93				.02	.09	.04	T.	.05	T.				2.36
Pikeville B					1.08			.07	.82					.18				.02	1.74	.45				.38	.60		.02					5.18
Pippapass K							2	.30					.40	.20			.03	.25	.91	.53				.22	.70		.10					4.53
Quicksand‖ K					1.37	1.80		T.						.57				.56	2.10	.05			.27	.70								6.28
Ravenna, Lock No. 12‖ K					1.07			.85	.11				T.	.23			T.	T.	2.99						.20	.60						8.09
Richmond K				.60			.50						.85			.05	.05	2.16	1.93	.11			.14	.44		.09						4.47
Valley View, Lock No. 9‖ K					.55			.67						.10		.03		.04	2.16				.10	.10		.05						4.00
Vanceburg, Dam No. 32‖ O					.80			.02	.34					.07			.03	.06	1.10	.20			.20	.11		.03						3.89
Williamsburg C					1.02			.49	.45					.12				.08	2.49	.12			.32	.16		.04						2.90
Willow, Lock No. 13‖ K					1.16				.16					.21					2.55	.10			.38	.14								5.25
Winchester K					.59			.39	.21				.02	.14			.04	.12	2.19	.06			.19	.03		.02	T.					4.70
																																4.00

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for November, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	79	79	76	72	71	77	79	70	53	65	74	79	69	57	64	57	65	70	52	62	64	53	40	36	37	34	28	44	58	61	..	60.8
	Minimum	40	50	51	53	43	45	56	33	21	29	41	50	46	26	27	35	51	51	40	29	33	39	32	28	19	25	28	12	14	27	39	..	36.2
Calhoun	Maximum	79	79	76	71	71	76	77	47	54	61	74	77	69	59	66	58	57	71	50	63	64	55	40	36	37	35	28	47	59	63	..	60.0
	Minimum	37	41	51	39	41	43	41	33	17	22	32	44	40	21	22	29	29	48	34	23	28	31	30	11	21	16	10	9	28	33	..	30.1
Earlington	Maximum	80	80	79	78	73	79	79	72	60	65	76	76	73	59	64	63	66	72	52	62	66	63	42	36	39	37	29	46	59	61	..	62.9
	Minimum	42	51	58	56	46	49	52	34	20	26	45	53	50	26	34	35	53	52	41	30	32	41	35	28	17	26	10	15	33	40	..	37.7
Greenville	Maximum	79	80	79	70	74	79	81	69	54	66	75	77	72	60	68	58	66	69	57	65	66	62	42	35	38	35	30	45	60	63	..	62.4
	Minimum	38	44	51	51	44	39	52	33	19	24	41	50	47	24	26	34	49	54	40	26	29	39	31	26	15	24	8	12	30	33	..	34.4
Henderson	Maximum	80	78	78	70	73	75	72	52	58	65	70	74	70	60	66	61	65	69	48	65	65	53	38	39	38	34	29	47	59	62	..	60.4
	Minimum	45	51	54	50	45	48	52	29	20	28	43	54	43	29	32	37	48	46	40	32	37	36	30	27	16	21	10	16	33	39	..	36.4
Hopkinsville	Maximum	82	80	79	71	67	78	80	59	66	75	80	57	62	66	68	70	72	56	66	67	60	45	38	39	41	36	47	60	65	..	62.8
	Minimum	40	48	48	52	40	44	46	33	24	28	35	45	52	25	25	38	52	50	35	36	29	35	34	27	16	27	11	14	24	27	..	34.7
Lovelaceville	Maximum	79	78	76	71	73	75	72	47	54	63	73	75	71	58	64	60	70	70	52	64	60	36	37	38	35	35	46	58	62	61	..	60.4
	Minimum	40	48	59	54	43	45	44	39	21	24	41	50	50	25	24	38	52	48	37	29	37	32	29	18	29	14	15	30	29	40	..	35.8
Mayfield	Maximum	81	80	78	72	74	77	75	49	55	66	75	78	71	61	67	57	73	72	53	.	67	60	39	39	38	36	33	48	62	64	..	*62.1
	Minimum	46	51	57	52	41	47	46	27	25	30	42	57	48	28	33	44	52	45	37	.	33	37	30	21	17	25	12	16	31	32	..	*36.8
Murray	Maximum	80	78	77	70	72	77	76	48	56	64	74	76	70	60	65	55	72	70	51	65	57	54	41	38	38	40	31	46	59	63	..	61.0
	Minimum	49	54	56	56	44	50	48	30	25	32	43	45	35	31	35	46	54	48	40	33	40	33	32	28	19	27	14	26	36	38	..	38.4
Owensboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Paducah	Maximum	80	82	81	78	70	76	78	77	46	56	..	..	..	56	61	57	60	72	60	58	60	67	46	34	38	40	33	31	48	62	..	*59.6
	Minimum	32	42	51	60	44	44	52	30	24	26	..	..	..	28	28	30	52	52	38	30	30	34	34	30	20	22	16	16	20	30	..	*33.9
Paducah (near)	Maximum	82	80	79	72	75	77	75	51	59	62	75	78	74	61	67	59	70	71	56	68	67	66	38	39	41	36	34	48	61	64	..	62.6
	Minimum	42	55	58	62	44	51	47	28	22	26	46	56	50	26	35	46	52	48	37	30	40	37	32	29	18	28	18	20	32	35	..	37.8
Princeton	Maximum	81	81	79	70	75	78	79	50	57	66	76	76	68	61	65	60	67	70	53	65	66	61	41	38	41	36	31	48	60	63	..	62.1
	Minimum	42	45	55	43	43	50	52	22	26	36	50	51	26	26	39	53	49	41	30	36	36	31	28	18	26	12	15	28	24	..	..	33.8
Russellville§§	Maximum	72	73	70	76	65	70	75	45	44	61	72	..	..	..	..	..	..	..	66	35	62	60	39	39	39	37	29	43	56	59	..	.....
	Minimum	40	45	52	47	41	46	47	34	22	25	43	37	..	..	..	..	..	..	..	42	33	33	33	34	27	16	19	10	12	22	30	..	.....
Central Division.																																	
Anchorage	Maximum	81	81	79	77	70	67	80	67	54	65	73	78	69	56	62	61	61	69	60	61	65	55	39	41	34	35	34	41	55	59	..	61 1
	Minimum	37	44	50	50	40	37	51	26	19	26	36	55	33	33	24	33	40	55	34	27	30	35	34	19	10	25	9	8	31	27	..	32.5
Bowling Green	Maximum	75	78	76	72	70	72	78	70	53	65	73	78	70	59	68	57	65	70	56	59	62	61	51	36	37	42	41	42	57	60	..	61.7
	Minimum	44	48	46	62	42	42	58	36	27	30	43	50	50	33	33	37	55	56	37	31	33	38	35	30	22	24	15	18	27	34	..	37.9
Danville	Maximum	74	78	79	62	53	77	74	74	54	67	73	69	68	57	68	63	69	67	64	64	61	64	51	33	37	36	36	43	56	61	..	60.7
	Minimum	35	40	39	43	42	36	57	32	18	23	39	44	46	31	30	29	45	53	41	26	29	35	32	23	14	21	11	12	26	37	..	33.0
Dix Dam	Maximum	80	77	76	79	72	79	79	72	51	67	73	73	64	57	61	61	63	72	56	60	61	60	59	34	35	42	37	41	54	59	..	62.0
	Minimum	37	42	42	47	47	51	55	36	24	30	38	50	52	33	35	56	56	45	32	36	38	34	26	15	28	15	17	27	40	..	..	37.3
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	39	39	40	43	43	40	59	33	20	24	30	45	35	25	26	30	47	35	34	26	30	36	33	28	11	22	15	10	18	28	..	31.3
Frankfort	Maximum	82	78	78	79	70	79	79	75	51	65	73	75	68	57	64	63	62	71	58	63	66	64	46	33	36	39	33	41	55	60	..	62.1
	Minimum	32	37	38	39	47	35	55	35	22	25	32	42	48	28	28	32	41	48	43	24	30	36	33	25	16	28	12	13	27	34	..	32.6
Glasgow	Maximum	74	70	74	74	72	72	73	72	53	65	73	76	76	56	60	60	64	71	56	61	59	64	63	39	45	40	41	41	54	61	..	61.8
	Minimum	37	43	52	55	46	38	56	36	22	25	39	47	49	26	26	32	50	54	45	27	29	37	36	27	13	28	13	13	29	36	..	35.5
Greensburg	Maximum	79	80	79	75	70	79	78	73	53	56	73	78	72	57	62	61	64	72	57	58	64	65	57	37	37	43	40	42	55	58	..	62.5
	Minimum	32	34	39	50	42	38	57	32	20	22	32	24	48	25	22	30	49	53	43	26	26	32	33	25	10	23	12	9	21	34	..	31 4
Irvington	Maximum	78	78	76	69	69	69	77	70	51	68	71	75	68	55	62	57	63	69	57	59	62	53	40	34	36	36	35	27	41	42	51	..	58.6
	Minimum	43	51	53	48	57	47	59	34	25	31	41	56	46	29	34	37	50	57	42	33	33	40	40	32	27	21	25	13	17	22	32	..	38.1
Leitchfield	Maximum	79	71	77	70	70	77	76	71	53	71	73	76	70	57	63	55	62	69	55	61	62	59	45	34	35	40	28	43	57	60	..	60-7
	Minimum	43	51	52	52	46	46	56	33	23	30	43	50	47	28	32	38	50	55	41	31	35	42	32	27	16	26	9	15	28	35	..	37.1
Lexington	Maximum	80	77	77	76	69	78	78	73	51	65	72	75	66	54	61	59	64	68	55	60	64	64	38	31	34	41	24	38	51	57	..	59.0
	Minimum	43	50	50	48	45	44	53	27	24	31	41	52	33	30	35	34	45	58	32	29	35	37	31	15	11	16	11	14	28	35	..	34 7
Louisville	Maximum	77	78	76	75	68	75	76	43	52	63	71	75	70	54	61	59	64	71	49	59	64	54	39	33	35	35	25	40	55	57	..	58.6
	Minimum	46	54	56	51	48	47	47	34	29	33	50	56	42	36	41	36	49	47	39	36	40	39	33	26	22	19	13	19	33	41	..	38.5
Do. Bowman Field	Maximum	80	78	77	76	70	76	78	43	52	63	72	76	67	55	61	60	69	59	48	62	63	54	35	33	34	33	26	42	56	57	..	58.1
	Minimum	40	55	51	47	43	59	35	25	31	45	52	56	32	25	36	48	61	45	32	38	44	35	29	18	30	15	16	31	37	..	..	38.7
Mammoth Cave	Maximum	77	82	76	71	70	77	76	68	52	67	77	77	69	58	63	60	69	70	56	61	63	61	46	34	36	41	28	42	52	60	..	61 3
	Minimum	37	43	51	52	45	35	59	32	17	24	47	54	44	24	31	31	49	53	39	25	29	32	31	25	11	28	9	10	28	35	..	34.2
St. John	Maximum	79	79	76	77	69	75	76	72	51	63	73	75	69	60	66	58	68	71	58	62	63	61	46	39	38	41	30	41	55	61	..	61.4
	Minimum	39	46	50	52	42	40	58	32	22	27	40	47	40	32	36	34	47	52	42	26	33	34	32	26	12	26	6	12	28	34	..	34.6
Shelbyville	Maximum	78	76	77	75	73	75	77	72	50	52	70	74	68	55	60	58	59	68	56	60	63	58	43	33	32	35	31	29	52	57	..	58 9
	Minimum	39	46	47	46	42	42	57	32	22	28	40	48	45	27	28	31	41	54	41	29	34	36	31	23	8	26	7	10	27	31	..	32.9
Smith's Grove	Maximum	79	80	78	73	72	80	77	46	52	68	72	78	68	59	64	59	70	71	53	64	65	62	41	33	35	40	33	43	59	63	..	61.0
	Minimum	42	50	54	44	42	42	55	23	25	30	42	54	29	29	30	41	52	52	35	25	29	16	17	10	10	16	18	28	34	..	..	33.2
Stearns	Maximum	78	77	77	76	71	76	77	71	49	59	73	75	71	60	66	59	68	72	54	55	66	67	49	31	34	41	27	39	54	60	..	60.1
	Minimum	43	46	55	51	48	50	58	34	24	34	46	48	34	30	36	38	52	53	30	30	32	42	31	13	13	16	11	11	26	35	..	34.3
Williamstown	Maximum	78	77	77	77	72	77	78	74	50	63	72	76	69	52	60	62	57	68	56	58	63	59	48	39	35	41	33	38	49	56	..	60.5
	Minimum	43	46	47	45	45	43	58	33	25	28	45	48	47	29	31	31	44	54	42	32	34	40	32	23	12	26	7	12	27	33	..	35.5
Eastern Division.																																	
Ashland	Maximum	64	78	78	78	71	78	83	78	49	65	72	77	71	53	60	63	62	80	57	57	65	65	50	33	32	38	37	34	49	55	..	60.9
	Minimum	33	35	36	39	41	39	51	35	27	26	36	43	52	32	28	30	45	53	45	33	32	33	33	24	9	18	19	19	21	33	..	33.4
Berea	Maximum	77	76	77	74	72	79	77	72	60	65	71	75	71	54	60	61	65	78	56	60	65	66	57	36	34	40	40	36	51	58	..	61.8
	Minimum	41	52	46	45	45	43	45	30	22	30	32	54	46	32	36	31	50	54	43	30	33	46	33	24	10	15	15	14	27	38	..	35.3
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	81	36	54	42	42	36	56	33	20	20	32	40	47	27	24	20	42	54	44	29	28	30	33	25	16	12	14	16	16	38	..	31.9
	Minimum	31	36	54	42	42	36	56	33	20	20	32	40	47	27	24	20	42	54	44	29	28	30	33	25	16	12	14	16	16	38	..	31.9
Heidelberg	Maximum	78	77	77	77	76	79	82	74	51	69	73	76	69	60	62	62	66	77	56	57	68	67	58	41	26	44	20	8	15	24	..	3 . 9
	Minimum	32	35	35	37	43	35	48	39	25	28	34	40	52	28	25	29	52	52	45	31	29	30	36	30	2	14	20	8	15	24	..	31.6
Maysville	Maximum	75	78	78	76	73	79	82	75	50	66	73	77	68	55	61	63	63	68	56	59	66	64	49	35	34	41	38	38	51	62	..	63.7
	Minimum	34	38	38	42	47	38	54	35	24	27	36	43	48	32	27	33	41	53	43	30	31	39	34	26	8	24	16	16	24	32	..	33.7
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	77	77	78	77	70	78	82	54	49	69	70	78	71	54	60	61	70	78	57	56	67	62	51	40	35	42	34	40	56	56	..	61.8
	Minimum	33	37	36	38	48	53	28	28	31	41	45	84	27	30	29	51	55	42	32	28	33	35	18	25	18	28	13	18	26	..	..	35.0
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	34	37	36	38	36	65	68	30	26	23	34	41	46	31	28	30	53	51	55	35	29	30	31	24	12	17	20	14	20	31	..	33 9
Quicksand	Maximum	30	33	33	32	43	84	46	33	24	22	31	37	44	28	28	27	49	52	40	31	28	28	32	23	12	11	12	11	14	25	..	29.7
	Minimum	30	33	33	32	43	84	46	33	24	22	31	37	44	28	28	27	49	52	40	31	28	28	32	23	12	11	12	11	14	25	..	29.7
Richmond	Maximum	80	80	82	78	72	80	78	45	53	65	72	76	68	57	60	62	60	62	50	60	66	68	42	32	33	40	32	40	50	60	..	60.1
	Minimum	42	47	50	64	47	47	62	38	27	34	48	52	62	33	37	38	50	52	45	32	37	45	40	26	13	25	11	15	28	37	..	39.7
Williamsburg	Maximum	78	78	78	77	72	76	81	72	46	72	74	69	71	54	55	59	68	70	56	56	67	61	52	38	26	34	34	36	54	61	..	60.5
	Minimum	33	40	39	42	43	41	52	31	23	25	33	43	29	27	24	39	44	43	30	29	32	32	22	11	25	12	13	18	31	..	..	31.3
Winchester	Maximum	79	76	78	77	70	77	78	42	49	64	71	74	66	73	60	58	67	67	46	57	64	64	39	27	32	38	22	35	50	57	..	58.2
	Minimum	43	48	49	47	44	46	35	22	17	15	50	51	31	27	32	32	47	43	30	30	34	35	26	9	12	13	13	15	28	33	..	31-9

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

,,* etc. Indicate respectively 1, 2, 4 etc., days missing from record.

C. B. O. Louisville. 12-25-38. 1100

51.05
NKE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., DECEMBER, 1938 No. 12

GENERAL SUMMARY.

Abnormally dry weather, broken only by occasional light to moderate showers, prevailed from the 1st to 25th. Surface moisture that remained from the preceding month sufficed for grass and grains, but the subsoil continued so dry on the northern and western hills and rolling uplands as to interfere with the smooth progress of winter plowing. The dry weather seriously hindered tobacco stripping. Until the 26th, periods of high humidity were usually too brief to properly condition tobacco for handling. In the dry decade from the 12th to 21st, artificial moistening was required in order to carry supplies for stripping through the rainless interval. On the other hand, the dry weather favored the completion of corn gathering and other outdoor work. Roads free of snow and ice offered no hindrance to travel or transportation.

Warm weather in the first week caused winter grains to make some growth, which was the last of any consequence before they entered the dormant winter state. Except the early sown, wheat did not reach full size for best resistance to winter; but in the search for moisture it developed a good root system that would well withstand the freezes. The variable temperature of the last three weeks caused much freezing and thawing, which lifted and injured the plants where the surface remained wet. Until the rains of the 26th, the dryness of soil in most places prevented the formation of the ice crystals that force the plants out of the ground. Most of the damage resulted from the hard freezes of the saturated surface in the last week.

The rains late in the month improved water supplies in the hilly districts and furnished considerable moisture for the subsoil of the relatively dry northern and western districts. As a rule the southeastern counties had sufficient moisture from the rains of the preceding month. Except during the short cold period near the end, the weather was unusually favorable for livestock on stalk fields or fed outdoors.

TEMPERATURE.

The temperature averaged near normal in most of the State. In some extreme northern sections, because of more sunshine, monthly means were considerably above normal, while southeastern stations reported a rather large deficiency. Daily means in the first week ranged from 5° to 15° above normal. A few days in the last week gave negative departures of similar amounts. During most of the month, however, temperatures did not vary greatly from the average. The highest for the State was 67° on the 2d at Williamstown and on the 3d at Heidelberg. The lowest was 3° on the 28th at Mammoth Cave.

PRECIPITATION.

Precipitation averaged somewhat less than half the normal amount. It was heaviest in the southeastern counties, where most stations reported from 2.0 to 3.5 inches. Westward from that section amounts ranged between 1.5 and 2.0 inches. Northward they diminished to little more than 1.0 inch in the lower Licking Valley. Amounts for the State varied between 3.62 inches at Pippapass and 1.03 inches at Oneonta. Light to moderate rain occurred generally in the periods 2d-5th and 8-12th. Rainfall was moderate to fairly heavy in most districts in the periods 23d-24th and 26-27th. The total snowfall ranged from a trace in the western counties to 5.0 inches in the eastern mountains. Most of it fell on the 9th and from the 27th to 29th. No thunderstorms were reported.

MISCELLANEOUS.

Rivers ---Stages at or near pool levels, without important changes, prevailed during the month.

Errata.—September, page 34, St. John mean temperature should be 70.6, and greatest 24-hour precipitation, 1.56; page 36, mean minimum should be 59.2.

October, page 38, mean temperature at Murray should be 64.2 and at Paducah 63.3. Lowest temperature at Glasgow should be 28 on 25th; page 40, mean maximum at Murray should be 78 3 and mean minimum 50.1. Mean maximum at Anchorage should be 74.8.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.12	30.66	28	29.68	26	8.8	27	se.	8	76	57	59	49
Cincinnati .....Ohio	30.11	30.71	28	29.62	26	8.4	30	sw.	27	76	63	64	57
Evansville..... Ind.	30.12	30.67	28	29.67	26	8.9	30	nw.	27	75	63	64	49
Louisville .....Ky.	30.11	30.69	28	29.65	26	10.3	34	w.	27	75	58	58	51

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature. †Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889.....	50.2	76	13	1.57	....	..	..	..	..
1890.....	37.8	70	12	3.51	....	..	..	..	..
1891.....	42.4	70	15	4.10	....	..	..	..	..
1892.....	34.6	74	− 3	4.22	....	..	..	..	..
1893.....	39.0	78	10	2.69	....	..	..	..	..
1894.....	38.7	76	−11	4.31	....	10	..	..	..
1895.....	38.8	77	6	4.43	....	9	7	9	15
1896.....	39.6	73	7	1.82	....	4	14	8	9
1897.....	38.0	72	3	3.75	2.5	10	5	8	18
1898.....	34.1	70	−12	2.74	5.7	8	14	7	10
1899.....	34.8	70	−15	4.26	2.6	10	12	8	11
1900.....	38.6	70	12	2.59	0.1	8	13	6	12
1901.....	32.3	72	−22	4.90	5.7	10	8	7	16
1902.....	36.7	72	− 3	7.36	2.4	12	7	5	19
1903.....	30.7	58	0	2.88	2.0	7	16	6	9
1904.....	36.4	72	− 2	4.30	2.4	11	10	5	16
1905.....	37.3	66	11	4.38	1.2	8	11	5	15
1906.....	39.0	76	− 9	5.64	1.6	15	6	4	21
1907.....	38.5	70	8	3.20	1.0	11	8	5	18
1908.....	39.8	74	7	2.42	0.4	9	11	6	14
1909.....	29.9	79	−14	3.46	3.3	9	10	5	16
1910.....	31.1	66	− 3	3.37	6.6	8	11	5	15
1911.....	41.6	74	11	6.25	0.4	12	9	4	18
1912.....	37.2	73	5	3.98	5.2	9	14	5	12
1913.....	39.5	70	11	2.73	1.6	7	10	5	16
1914.....	32.8	70	−16	5.22	7.7	14	6	4	21
1915.....	37.0	64	9	7.56	3.3	12	10	6	15
1916.....	35.5	74	−14	4.23	10.1	10	12	7	12
1917.....	26.5	72	−21	2.01	17.8	8	10	7	14
1918.....	44.8	75	14	4.44	0.7	12	10	6	15
1919.....	34.6	68	3	4.93	1.0	7	12	5	14
1920.....	35.6	68	4	2.89	2.0	9	9	6	16
1921.....	41.7	73	18	4.40	0.1	7	10	6	15
1922.....	41.5	77	5	5.64	0.2	12	10	6	15
1923.....	46.6	75	8	6.60	2.1	14	9	5	17
1924.....	35.9	79	− 9	5.97	1.2	9	18	5	13
1925.....	34.8	70	− 5	0.89	1.7	5	13	6	12
1926.....	37.8	75	5	6.01	0.3	12	8	5	18
1927.....	37.4	77	1	3.37	0.5	10	14	4	13
1928.....	39.5	72	5	2.32	T.	7	17	5	9
1929.....	39.0	76	−15	2.72	6.8	11	10	5	16
1930.....	35.4	69	2	2.21	2.6	8	10	7	14
1931.....	46.1	73	17	5.48	0.0	13	7	5	19
1932.....	37.9	72	− 8	4.82	1.9	12	10	6	15
1933.....	44.2	75	− 5	4.99	1.4	10	9	7	15
1934.....	37.0	69	5	2.18	1.5	9	10	6	15
1935.....	30.0	63	−14	2.89	9.0	9	8	7	16
1936.....	40.5	70	10	4.51	2.0	10	13	5	13
1937.....	35.5	68	0	2.94	2.0	12	7	6	18
1938.....	37.9	67	3	1.85	0.2	7	13	7	11
Period	37.7	79	−22	3.90	3.0	10	10	6	15

†50-year averages.

Climatological Data for December, 1938.

Station	County	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation in inches Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (melted).	Number of days: With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Western Division.																				
Beaver Dam	Ohio	441	26	37.8	+ 0.7	61	2	10	28	35	1.49	−2.26	0.70	0.1	4	12	5	14	s.	Eldred G. Young.
Calhoun	Mc. ean	437	34	37.0	− 2.0	62	2	7	27	45	1.65	−2.61	0.62	1.0	4	5	6	20	.....	R. C. Bennett.
Earlington	Hopkins	420	44	39.5	+ 0.6	62	21†	10	28	34	1.63	−2.64	0.70	0	5	14	3	14	n.	Brick Southworth
Fords Ferry, Dam 50	Crittenden	356	9	.....	.....	.....	.....	.....	.....	.....	1.69	−1.38	0.42	T.	6	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	...	.....	.....	.....	.....	.....	.....	.....	1.85	.....	0.58	0	7	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	21	38.0	− 1.2	60†	21†	7	28	35	1.57	−2.39	0.65	0.5	5	15	2	14	s.	C. R. Lovell.
Hartford (near	Ohio.	640	...	.....	.....	.....	.....	.....	.....	.....	1.95	.....	0.75	0	5	15	1	15	.....	W. R. Carson. Sr.
Henderson	Heuderson	382	16	37 8	.....	59	2	8	28	33	2.17	−2.47	0.72	0	4	14	11	6	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	42	37.8	− 1.2	65	1	11	28	35	1.88	−3.29	0.65	0	7	20	6	5	s.	W. K. Morris.
Lovelaceville	Ballard	479	9	39.2	0.0	63	4	12	28	33	2.08	−2.03	0.75	0	5	13	13	5	s.	Blaine Malone.
Mayfield	Graves	364	29	40.2	− 0.2	66	1	12	27	32	1.99	−2.33	0.67	T.	6	11	11	9	n.	Mrs. Joe Payne.
Murray	Calloway	412	12	40.3	+ 1.1	64	4	14	28	33	1.85	−2.84	0.69	T	5	9	3	19	s.	Pat W. Wear.
Owensboro	Daviess.	420	41	36.6	− 0.6	60	2	12	28	34	1.29	−2.45	0.36	0.5	7	12	8	11	.....	Henry S. Berry.
Owensboro, Dam 46	Daviess.	404	10	.....	.....	.....	.....	.....	.....	.....	1.45	−1.72	0.86	T.	8	.....	.....	.....	.....	Lockmaster.
Paducah **	McCracken	341	18	37 7	− 1.3	65	4	16	28	32	1.75	−2.44	0.52	T.	7	11	5	15	.....	U. S. Engineers.
Paducah (near)	McCracken	390	18	40.0	.....	64	4	12	28	35	1.56	−3.29	0.54	0	4	15	7	9	.....	Joe Lagore.
Princeton	Caldwell	529	31	38.8	+ 0.1	65	4	12	28	34	1.61	−2.75	0 60	T.	7	11	8	12	s.	Dr. W. L. Cash.
Ramsey, Lock 2‡	McLean	384	21	.....	.....	.....	.....	.....	.....	.....	1.34	−2.48	0.52	0.1	8	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	25	34.2	− 4.6	60	11	11	28	39	1.66	−2.32	0.82	0	6	15	5	11	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	10	.....	.....	.....	.....	.....	.....	.....	1.71	−1.39	0.54	T.	8	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	10	.....	.....	.....	.....	.....	.....	.....	1.63	−1.98	0.57	0	9	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	38	35.4	+ 0.5	65	2	7	28	37	1.53	−2.33	0.80	T.	5	15	4	12	sw.	C. E. Barret.
Bowling Green	Warren	500	42	39.4	+ 0 4	62	2	13	28	32	1.28	−3.44	0.55	T.	5	19	4	8	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	21	.....	.....	.....	.....	.....	.....	.....	1.79	−2.95	0 85	0	8	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	47	.....	.....	.....	.....	.....	.....	.....	2.81	−1.30	0.77	0.2	10	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	39	.....	.....	.....	.....	.....	.....	.....	1.75	−1.36	1.00	0	7	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	12	.....	.....	.....	.....	.....	.....	.....	1.19	−1.61	0.63	T.	6	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	14	37.0	.....	59	21†	10	28	34	2.13	−1.71	0.85	0.3	8	11	9	11	w.	R. P. Coldiron.
Princeton	Mercer	770	14	39.3	− 0.7	64	1†	9	28	36	2.05	−1.65	0 78	0	7	10	10	11	se.	Kentucky Utilities Co.
Dix Dam, Burgin	Mercer	770	14	.....	.....	.....	.....	.....	.....	.....	2.62	.....	0 79	T.	10	.....	.....	.....	.....	Joe Norfleet.
Eadsville	Wayne	672	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Katie Payne.
Eubank	Pulaski	1177	43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Frankfort, Lock 4	Franklin	504	42	37.7	+ 0.8	65	2	9	28	36	1.18	−1.62	0.75	T.	6	10	10	11	w.	Lockmaster.
Gest, Lock 3	Henry	490	28	.....	.....	.....	.....	.....	.....	.....	1.47	−2.32	0.46	0	8	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	7	38.6	.....	64	1	11	28	36	2.62	−3.13	0.95	0	5	14	11	6	s.	L. E. Turner.
Grant, Dam 38	Boone	506	13	.....	.....	.....	.....	.....	.....	.....	1.37	−1.23	5 75	.....	7	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	45	37.4	+ 0.1	64	2	8	28	40	2.15	−2.37	0.79	T.	6	6	2	23	s.	Mrs Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	36	.....	.....	.....	.....	.....	.....	.....	1.95	−2.08	0.80	..	9	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	40	38.6	+ 1.8	61	2	14	28	29	1.12	−2.31	0.68	T.	6	15	5	11	sw	W. J. Piggrot.
Lancaster	Garrard	1032	12	.....	.....	.....	.....	.....	.....	.....	2.11	−1.05	0.82	0	7	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	42	38.2	+ 1.0	60	21†	11	28	30	1.66	−3.08	0.73	T.	8	10	10	11	s.	H. H. Willis.
Lexington	Fayette	989	54	37.2	+ 1.4	64	2	9	28	30	1.69	−2.08	0.90	0.1	8	10	11	10	.....	U. S. Weather Bureau
Littlekickman, Lock 8¶	Jessamine	560	28	.....	.....	.....	.....	.....	.....	.....	1.91	−1.77	0.70	0	6	..	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	28	.....	.....	.....	.....	.....	.....	.....	1.68	−2.00	0.78	0	6	.....	.....	.....	.....	Lockmaster.
Louisville	Jefferson	459	65	38.0	+ 0.4	62	2	14	28	27	1.38	−2.86	0.68	T.	9	11	8	12	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	...	37.2	.....	63	2	14	28	30	1.54	.....	0.79	T.	10	.....	.....	.....	.....	U. S. Dept. of Commerce.
Mammoth Cave	Edmonson	800	8	37.4	.....	63	2	3	28	38	1.97	.....	0.91	0.1	8	11	6	14	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	...	.....	.....	.....	.....	.....	.....	.....	2.85	.....	0.85	0.5	8	12	6	13	.....	E. O Cooper
Munfordville	Hart.	600	9	.....	.....	.....	.....	.....	.....	.....	1.96	−1.12	0.98	0	5	.....	.....	.....	.....	Mrs. M. W. Price.
St. Jonn	Hardin	777	42	37.2	+ 1.4	61	2	8	28	35	1.64	−2.88	0.90	0	7	13	9	9	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	1.94	−2.46	0.75	0	6	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	45	38.4	+ 0.7	62	2	8	28	32	1.60	−2.58	0.70	T.	8	11	9	20	se.	Willa S Ratta.
Shepherdsville	Bullitt	500	1	.....	.....	.....	.....	.....	.....	.....	1.52	.....	0.93	T.	5	13	12	6	n.	A. McLeod.
Smith's Grove	Warren.	607	..	36.8	.....	63	21†	12	27	32	1.98	.....	0.90	T.	8	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thad. Cheatham, Sr.
Taylorsville	Spencer	489	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lockmaster.
Tyrone, Lock 5¶	Anderson	524	20	.....	.....	.....	.....	.....	.....	.....	1.93	−2.16	0.95	0	8	.....	.....	.....	.....	Miss Nettie B. Simpson.
Williamstown	Grant	943	35	37.8	+ 3.0	67	2	10	28	35	1.68	−2.46	0.70	0	8	15	2	14	w.	Lockmaster.
Woodbury, Lock 4‡	Butler	504	21	.....	.....	.....	.....	.....	.....	.....	1.63	−2.69	0.82	0	8	.....	.....	.....	.....	
Eastern Division.																				
Annville	Jackson	.....	7	.....	.....	.....	.....	.....	.....	.....	2.53	.....	0.52	2.5	11	11	13	7	sw	W. A. Worthington.
Ashland	Boyd	534	21	36 6	− 2.1	62	4	13	28	28	1.29	−2.36	0.51	0	6	14	3	14	w.	Lockmaster.
Berea	Madison	1070	35	38.0	0 0	63	2	9	28	33	2.26	−2.00	0.90	T.	7	13	9	9	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	28	.....	.....	.....	.....	.....	.....	.....	2.16	−1.82	0.95	0	6	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields.
Cynthiana	Harrison	684	20	.....	.....	.....	.....	.....	.....	.....	1.57	−1.28	1.23	.....	2	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	49	.....	.....	.....	.....	.....	.....	.....	1.84	−2.24	0.80	T.	7	.....	.....	.....	.....	J V Oldham
Farmers	Rowan	668	31	35.6	0.9	68	3	10	28	32	1.46	−2.40	0.62	T.	5	4	14	13	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	13	.....	.....	.....	.....	.....	.....	.....	1.67	−1.73	0 84	.....	4	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	22	.....	.....	.....	.....	.....	.....	.....	1.85	−1.87	0 87	.....	7	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	8	.....	.....	.....	.....	.....	.....	.....	1.27	−1.47	0.63	0	4	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	18	.....	.....	.....	.....	.....	.....	.....	1.57	−1.72	0.70	.....	7	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	14	.....	.....	.....	.....	.....	.....	.....	2.70	−2.02	0.95	2.0	8	.....	.....	.....	.....	H. A. Bally.
Heidelberg, Lock 14	Lee	663	3	37.8	.....	67	3	10	28	37	2.60	−1.06	0.96	0	10	12	1	18	sw.	Lockmaster.
Jackson	Breathitt	776	14	.....	.....	.....	.....	.....	.....	.....	2.79	.....	0.52	3.5	9	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher.	1566	12	.....	.....	.....	.....	.....	.....	.....	2.75	−0.93	0.98	5.0	6	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	35	.....	.....	.....	.....	.....	.....	.....	1.93	−1.68	0.73	0	6	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	40	36.9	+ 1.6	62	4	12	28	31	1.82	−1.91	0.80	0.1	8	8	9	14	sw.	Lockmaster.
Middlesboro	Bell	1128	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. McKee.
Oneida	Clay	800	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Garret Combs.
Onconta, Dam 35¶	Campbell	497	16	.....	.....	.....	.....	.....	.....	.....	1.03	−2.38	0 65	0.3	6	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	4	.....	.....	.....	.....	.....	.....	.....	2.27	.....	0 80	0.2	9	.....	.....	.....	.....	A. L. Bonta.
Pikeville	Pike	636	2	37.8	.....	63	4	16	28	29	2.52	−1.00	0.76	..	12	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	4	..	.....	.....	.....	12	28	.....	3.62	.....	1.00	0	8	21	3	7	w.	Coney Run Com. Cen.
Quicksand	Breathitt	732	12	.....	.....	60*	20	10*	28	44*	2.97	−1.13	0.57	T.	7	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	19	.....	.....	.....	.....	.....	.....	.....	1.52	−1.89	0.58	0	5	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	41	39.0	+ 0.8	65	21	10	28	27	2.50	−1.72	0.80	0	7	14	11	6	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	25	.....	.....	.....	.....	.....	.....	.....	1.61	−2.30	0.78	0	5	..	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	21	.....	.....	.....	.....	.....	.....	.....	1.73	−2.07	0.73	.....	6	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	41	.....	.....	.....	.....	11	28	.....	1.77	−2.22	0 46	T.	8	11	10	10	.....	Wadely West.
Willow, Lock 13	Lee	616	18	.....	.....	.....	.....	.....	.....	.....	2.90	−1.10	1.10	0	8	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	...	37.3	.....	62	21	10	28	29	1.63	.....	0.90	0	5	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	37.9	+ 0.2	67	21	3	28	45	1.85	−2.05	1.23	0.2	7	13	7	11	s.	

* * Precipitation by U. S. Engineers.

All temperature data are taken from self-registering thermometers

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, *, b, °, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries T Precipitation is less than 0.01 inch rain or melted snow

¶ Post-office addresses: —Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky.

Daily Precipitation for December, 1938.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G			.15					T.	.83														.31			.70						1.49
Calhoun G			.27					.47	.10														.19			.62						1.65
Earlington G			.20						.34														.26			.70			.03			1.63
Fords Ferry Dam 50 O		T.	.35	.15					.25	T.		T.					T.	T.					.42	T.		.11	.41		T.	T.		1.69
Gilbertsville T				.42	.08				.20	.03													.58		.14	.40						1.85
Greenville G		T.	.15						.24														.47			.65	.06					1.67
Hartford G		T.	.33	T.				T	.62		.01						T						.24			.75						1.55
Henderson O		T.	.38	T.				T.	.62		T.												.45			.72						2.17
Hopkinsville C				.08					.24									.02					.55	.05		.20	.45					1.59
Lovelaceville M		.10	.75					.25															.58			.40						2.08
Mayfield M		T.	.51					.04	.19								.04						.67			.54			T.			1.99
Murray T								.42	.14														.69			.58	.02					1.85
Owensboro O		.05	.23	T.				.02	.84		T.						T.						.36			.20	.07		T.			1.29
Owensboro, Dam 46 O			.28	.12					.25	.08	.03	T.											.31	T.		.04	.36	T.		T.		1.45
Paducah‡ O		T.	.52	.07					.15	.01							T.	T.					.43	T.		.15	.42		T.	T.		1.75
Paducah (near) O			.54					.14															.38			.50						1.56
Princeton G	.01		.20					.02	.30		.01						T.	T.				T.	.47			.60			T.			1.61
Quinsey, Lock No. 2 ‖ G			.12	.10	T.				.22	.12													.14	.04		.08	.52			T.		1.04
Russellville G			.13	.03					.21															.09		.28	.82					1.66
Uniontown, Dam 49 O		T.	.37	.12					.18	.06		T.					T.						.40			.03	.54		.01			1.71
Central Division																																
Addison, Dam 45 ‖ O		T.	.21	.12				T.	.24	.01		.04											.35	.04		.05	.57	T.				1.63
Anchorage O		T.	.15		T.				.23		.07												.18			.80	T.		T.			1.53
Bowling Green G			.03	.02					.20	T.													.55			.48						1.28
Brownsville, Lock No. 6 ‖ G			.07	.08					.20	.03													.41	.05		.10	.85					1.79
Burnside ‖ C				.28	F.	.03		.03	.13	.30													.18	.77		.29	.76		.09			2.81
Carrollton, Lock No. 1 ‖ K				.04	.05					.04													.21	1.00		.36	.05					1.75
Cold Spring, Dam 36 ‖ K		T.	.01	.20	T.	.05	T.		T.			T.											.20	.10	T.		.63	T.		T.		1.19
Danville ‖ K				.23					.05	.29								.04					.45	.10		.12	.85	T.				2.13
Dix Dam, Burgin K			.16					.01	.45													.43	.07		.15	.78					2.05
Eadsville C		.02		.22					.07	.18		.03						.03					.25	.79		.28	.75	T.				2.62
Eubank C																																
Frankfort, Lock No. 4 ‖ K				.11	T.	T.				.12		T.											.18	.01		.01	.75	T.		T.		1.18
Geat, Lock No. 3 ‖ K				.46	T.	.03				.13		.12											.20	.06		.09	.38					1.47
Glasgow G			.16						.23														.63	.05		.95			T.			2.02
Grant, Dam 38 ‖ O				.28	.07	.06						.02											.21	.03	T		.75					1.37
Greensburg ‖ G			.02	.17					.18								T.						.62			.87	.79					2.15
High Bridge, Lock No. 7 ‖ K				.16	.03				.02	.47	T.	.04											.32	.07		.04	.80					1.95
Irvington O		T.	.12	T.	T.				.23		.02	.04											.03			.68	T.		T.			1.12
Lancaster ‖ K			.25					.05	.23													.45	.11		.20	.82					2.11
Leitchfield ‖ G			.09	.08					.25	.06													.27	.03		.15	.73					1.66
Lexington *** K			.26		.01	T.			.12		.04											T.	.35			.87	.03		.01			1.69
Little Hickman, Lock No. 8 ‖ K				.15					.06	.80							T.						.56	T.		.20	.70	T.				1.91
Lockport, Lock No. 2 ‖ K			T.	.27	.07	T.				.15		.15											.26				.78					1.68
LOUISVILLE*** O		.04	.15		.01			.01	.24		.04						T.					.03	.18			.68	T		T			1.38
Do. Bowman Field O			.08	.11	.02	T.			.09	.19		.06											.17	.04		.01	.79	T		T.		1.84
Mammoth Cave ‖ G			.07	.05					.16	.05													.41	.09		.23	.91					1.97
Monticello ‖ K				.37				.02	.14	.23													.26	.70		.29	.85					2.86
Mumfordville ‖ G				.24	T.				.18	T.								T.					.40	T.		.16	.98	T.				1.96
St. John S			.14	.02	.01				.86														.18			.90	.03		T.			1.64
Salvisa, Lock No 6 ‖ K				.12	T.				T.	.50		T.											.15	.20		.22	.75					1.94
Shelbyville S		T.	.16		.01				.32	.02		.04											.20			.70	.15		T.			1.60
Shepherdsville S			.13		T.				.23														.20			.93	.03		T.			1.52
Smith's Grove G		.01	.12		.18	.12																.27	.24		.14	.90					1.98
Stearns C																																
Taylorsville O																																
Tyrone, Lock No. 5 ‖ K				.15	T.	T			.05	.33	T	.05											.28	.05		.10	.95					1.93
Williamstown L			.18																				.20			.70						1.08
Woodbury, Lock No. 4 ‖ G			.04	.08				.18	.02														.35	.07		.12	.82					1.63
Eastern Division																																
Annville ‖ C			.22	.14				.07	.06	.46							.10						.16	.38		.40	.52		.02			2.53
Ashland ‖ O						.02	T.		.12	.06		.10											.25	.29			.51					1.29
Berea K			.40						.17	.06							T.						.51	.02		.90	.20					2.26
College Hill, Lock No. 11 ‖ K				.28						.40		T.					T.	T					.35	.12		.06	.95					2.16
Cumberland C																																
Cynthiana ‖ L			.34									T.											T.		T.	1.28						1.57
Falmouth ‖ L		T.	.18	T.	.07			T.	.03		.12												.20	.03		T.	.80		T.			1.38
Farmers L			.23						.15		.11													.31			.62						1.46
Flemingsburg ‖ L					.31				.11														.41			.84						1.67
Ford, Lock No. 10 ‖ K				.28	T.				.21		.01						T.	T					.26	.10		.02	.87	T.		T.		1.85
Grayson O				.24			T.	T.	.10														.30	T			.68					1.27
Greenup, Dam 30 ‖ O				.25		.03			.05			.14											.19	.21			.70					1.57
Hazard ‖ K				.15					.10	.95	.05											.05	.70			.50						2.70
Heidelberg, Lock No. 14 ‖ K				.30				.05	.02	.66	T						.03	.01					.15	.41		.01	.96			T.		2.60
Jackson ‖ K				.22		T.		.25	.20	.48							T.						.42	.40		.25	.52			.05		2.79
Jenkins ‖ B				.05		T.	T.		.23	.68		.14	T.											.75			.60						2.75
Louisa ‖ B				.51					.15	.15													.20	.25			.73						1.99
Maysville, Dam 33 ‖ O				.20	T.	.03	.02		T.	T.		.43											.21	.12			.80			.01			1.82
Middlesboro C																																
Mount Sterling L																																
Oneida ‖ K																																
Oneonta Dam 35 ‖ O			T.	.13	.01	.04		T.		T		T.					T						.16	.04	T.		.65	T.		T.		1.08
Paintsville ‖ B								.14	.10	.56		.07						.12					.10	.36			.80			.02		2.27
Pikeville B			.13	.01	T.	.01		.26	.62	.14	.03	T					.10						.54	.15		.49	.04		T.	T.		2.52
Pippapass K			.15					.17	1.00	.60													.60	.20		.50	.50					3.62
Quicksand ‖ K				.28				.35		.57												.35		.47		.56		.34				2.92
Ravenna, Lock No. 12 ‖ K				.27				T.		.13							T.	T.					.34	.20		T.	.58	T.		T.		1.52
Richmond K			.60						.15								.05					.20			.40	.80	.30					2.50
Valley View, Lock No. 9 ‖ K				.15						.18													.45	.05			.78	T				1.61
Vanceburg, Dam No. 32 O				.25		.03						.37											.20	.16			.73					1.73
Williamsburg C					.19			.18	.03	.39													.07	.46			.04	.41				1.77
Willow, Lock No. 13 ‖ K				.34					.08	.58		.03											.46	.19		.15	1.10					2.90
Winchester K				.23	T.	T.		T.		.21		T.						T.	T				.25	.09		T.	.90	T.				1.68

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

(Reference mark ***) Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement

‡ Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C)Cumberland (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for December, 1938.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	57	61	60	58	56	49	55	54	45	47	59	60	42	49	41	50	45	43	42	54	46	44	47	49	46	42	41	35	37	37	51	48.4
	Minimum	32	46	46	39	36	35	27	36	31	21	42	32	19	19	20	28	32	15	17	24	26	17	41	25	32	32	18	10	20	17	16	27.3
Calhoun	Maximum	58	62	62	60	60	60	55	55	55	55	60	59	60	59	60	59	55	50	43	42	53	39	40	47	46	45	41	41	41	58	55	51	51.5
	Minimum	27	29	45	42	30	31	22	29	30	14	32	29	16	15	16	19	18	12	15	25	16	15	37	29	28	17	7	7	16	16	16	22.4
Earlington	Maximum	60	62	60	62	59	49	56	56	49	49	62	62	46	49	42	51	49	43	42	53	48	43	49	50	46	42	41	35	38	36	51	49.6
	Minimum	42	52	48	49	36	34	33	37	32	21	45	34	20	25	20	23	39	15	19	26	27	16	40	26	33	33	19	10	22	19	17	29.4
Greenville	Maximum	59	60	60	60	..	..	..	..	..	..	..	..	..	..	50	44	50	49	45	45	55	47	48	48	48	51	46	44	42	36	38	40	50	[1]48.4
	Minimum	36	47	46	36	34	32	27	36	29	18	41	32	17	18	19	20	35	11	14	24	22	14	38	24	28	30	15	7	19	15	15	27.6
Henderson	Maximum	57	59	52	58	58	49	57	54	42	47	58	53	46	46	45	45	43	45	45	48	40	40	44	50	53	48	41	35	41	32	48	47.7
	Minimum	39	50	45	39	36	32	34	35	29	20	42	23	20	27	17	25	34	15	19	26	25	17	35	27	44	31	19	8	23	18	15	28.0
Hopkinsville	Maximum	65	63	60	62	50	52	56	55	40	49	63	53	46	58	42	52	43	47	49	58	42	48	48	54	48	44	27	38	38	40	45	49.4
	Minimum	30	34	39	38	33	31	23	32	32	19	36	35	21	19	22	25	38	17	18	25	26	20	28	26	28	35	16	11	20	18	17	26.2
Lovelaceville	Maximum	61	60	58	63	60	50	55	51	44	52	61	55	45	52	45	47	47	46	47	48	44	45	46	52	47	43	42	38	40	38	50	49.5
	Minimum	44	50	48	38	37	27	25	29	33	18	47	33	21	20	21	25	35	15	19	31	26	21	42	30	28	35	18	12	20	20	17	28.8
Mayfield	Maximum	66	61	62	66	60	57	56	53	43	52	65	64	46	52	46	50	47	46	48	54	47	47	49	52	47	45	43	37	41	38	52	51.4
	Minimum	39	49	45	39	35	26	29	34	31	21	43	32	22	23	22	27	34	18	21	31	26	21	41	28	31	36	12	13	25	20	21	28.9
Murray	Maximum	62	61	60	64	54	51	55	55	42	52	64	45	45	55	42	51	43	44	46	53	46	47	50	51	49	49	49	43	36	37	50	49.3
	Minimum	36	47	37	40	35	29	32	48	30	22	50	37	25	22	26	27	38	20	23	34	28	22	43	31	42	48	28	14	25	34	22	31.3
Owensboro	Maximum	63	60	56	59	49	47	49	52	35	52	58	47	43	44	42	45	40	41	41	51	41	43	44	47	44	43	42	33	33	35	50	45.8
	Minimum	33	47	46	37	33	33	27	32	32	19	40	33	21	21	22	22	35	17	18	25	21	21	35	26	27	33	17	12	25	20	16	27.3
Owensboro	Maximum	64	59	60	65	43	51	57	50	35	54	68	40	46	50	44	49	44	46	45	50	38	48	44	52	46	42	28	38	40	36	..	[2]47.6
Paducah	Maximum	36	43	48	43	38	29	28	30	34	22	22	34	23	24	26	26	27	20	20	22	30	26	26	32	28	32	20	16	16	20	18	27.7
	Minimum	62	58	60	64	60	51	58	51	43	52	62	55	42	53	46	49	47	48	48	50	44	48	48	54	50	43	42	39	43	37	53	50.3
Paducah (near)	Maximum	42	52	50	43	37	28	32	36	30	28	51	33	21	26	26	26	36	15	19	30	24	20	42	28	29	35	19	12	24	20	18	29.7
	Minimum	60	60	59	65	58	51	57	57	44	49	62	60	45	50	44	50	46	44	45	53	44	45	48	51	47	42	41	37	39	39	52	49.8
Princeton	Maximum	61	46	47	51	33	29	25	33	31	20	45	35	21	21	22	35	32	16	20	27	22	20	42	28	29	35	19	12	24	20	18	27.8
	Minimum	56	54	47	52	38	47	53	54	34	52	60	38	35	39	39	45	41	42	38	51	30	42	42	50	43	40	28	33	33	33	44	43.0
Russellville§§	Maximum	38	37	42	40	36	33	30	33	20	21	35	20	22	20	21	27	17	13	19	28	17	24	26	30	32	18	11	12	18	17	..	25.3
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Central Division.																																	
Anchorage	Maximum	60	65	55	61	51	48	55	54	45	44	54	51	40	48	40	48	40	44	45	52	41	40	42	48	49	39	36	32	35	35	49	46.6
	Minimum	26	41	44	35	33	36	28	31	33	23	38	25	15	18	13	21	25	13	14	21	21	14	33	27	21	28	17	7	16	15	12	24.1
Bowling Green	Maximum	60	62	58	60	55	50	56	56	41	48	60	51	42	50	45	51	44	43	44	56	47	44	46	51	49	43	43	33	35	40	49	49.2
	Minimum	33	44	46	41	36	36	35	35	33	23	37	37	25	24	23	34	34	23	23	24	25	20	34	30	34	30	16	13	20	20	20	29.6
Danville	Maximum	54	59	54	59	53	43	51	48	48	38	56	55	37	55	40	44	42	41	44	50	50	39	45	49	49	41	39	32	38	42	49	46.6
	Minimum	31	42	44	40	37	34	29	37	31	29	32	37	21	21	18	17	28	26	19	20	27	15	33	33	31	30	18	10	18	17	17	27.5
Dix Dam	Maximum	54	64	60	60	60	46	56	55	51	45	58	58	40	50	43	50	48	46	44	53	47	38	45	49	50	41	44	33	39	42	48	48.9
	Minimum	28	45	46	45	42	37	35	41	35	33	38	38	39	21	25	21	22	28	26	20	23	27	16	35	35	32	30	18	19	9	19	29.7
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Eubank	Minimum	25	37	37	37	33	33	26	35	27	27	34	32	16	15	19	21	32	27	16	18	26	14	34	32	32	28	16	10	17	15	19	25.8
	Maximum	61	65	59	62	54	48	56	56	50	44	55	53	43	50	41	45	44	45	45	53	46	38	44	50	47	42	40	30	37	42	48	48.1
Frankfort	Minimum	25	42	46	43	42	36	32	39	35	32	38	36	18	18	17	18	37	19	16	20	29	14	35	33	26	28	18	9	16	15	14	27.8
	Maximum	64	62	62	59	60	48	53	54	52	44	59	60	41	48	48	52	52	44	38	56	57	43	43	45	49	45	43	35	37	42	47	49.8
Glasgow	Minimum	29	41	45	45	40	36	25	35	32	23	40	39	19	18	21	18	37	25	15	20	24	14	35	28	31	31	19	11	17	16	17	27.3
	Maximum	63	64	59	62	59	49	56	54	50	47	59	60	42	50	44	54	48	46	45	56	53	42	45	49	49	42	43	34	38	42	48	50.1
Greensburg	Minimum	28	37	38	46	34	34	28	36	30	23	37	36	17	15	17	16	37	25	14	20	25	13	35	28	29	30	16	8	13	15	13	24.8
	Minimum	56	61	58	58	55	47	54	54	45	43	57	50	40	47	39	45	45	41	42	51	40	39	45	48	45	40	41	35	35	47	48	46.9
Irvington	Minimum	35	50	45	43	39	36	34	36	34	27	42	36	25	29	19	35	26	21	20	26	29	21	34	31	33	37	18	14	23	21	19	30.4
	Maximum	58	60	59	60	55	48	55	57	52	45	58	57	47	48	41	49	45	42	44	54	47	40	45	48	47	40	44	34	39	40	48	48.3
Leitchfield	Minimum	36	46	44	43	37	35	30	35	30	22	40	34	19	23	21	23	37	18	20	26	26	18	36	28	30	34	17	11	12	19	18	28.0
	Maximum	60	64	62	59	52	44	54	54	42	43	57	53	40	47	40	46	45	45	51	57	39	42	47	46	42	39	29	37	41	46	46	46.4
Lexington	Minimum	31	46	44	41	35	35	32	40	32	31	40	23	19	23	19	22	38	22	20	26	26	20	36	32	29	32	13	9	21	19	18	28.0
	Minimum	56	62	56	58	54	46	53	53	42	47	56	47	39	47	38	45	45	41	40	51	36	38	44	49	45	40	31	32	34	36	48	46.5
Louisville	Minimum	33	51	45	42	37	36	37	41	33	27	47	29	26	28	22	27	26	22	27	29	28	22	36	32	33	31	15	14	25	20	21	30.4
Do. Bowman Field	Maximum	60	63	56	58	54	47	53	53	41	44	57	46	40	46	39	42	43	41	41	52	36	38	44	50	45	40	32	34	34	36	48	45 6
	Minimum	30	49	47	40	38	37	35	39	34	27	45	29	21	24	20	24	26	18	21	27	25	20	37	30	30	32	16	14	23	20	18	28.9
Mammoth Cave	Maximum	62	68	59	62	55	49	51	56	50	44	59	59	42	50	43	57	47	44	44	56	48	41	49	50	48	42	40	33	35	42	47	49.8
	Minimum	31	46	43	42	35	34	29	34	29	20	40	32	15	20	12	19	37	20	14	21	20	17	36	27	28	30	16	8	18	13	13	25.6
St. John	Maximum	59	61	60	60	57	48	56	54	51	45	59	58	44	52	42	48	47	46	43	54	47	38	44	49	46	41	41	33	34	42	48	48.6
	Minimum	28	46	43	39	38	36	25	34	31	22	38	33	17	17	12	20	35	17	17	20	24	15	33	25	27	31	16	8	18	16	15	25.7
Shelbyville	Maximum	60	62	56	58	54	50	53	53	47	42	53	54	41	47	42	45	43	42	41	51	44	46	42	48	47	39	40	30	34	43	46	46.6
	Minimum	28	45	43	38	39	34	30	37	32	27	35	31	17	19	15	20	34	18	15	23	26	16	32	29	25	29	16	8	19	17	14	26.2
Smith's Grove	Maximum	62	68	52	61	50	50	56	56	37	38	48	60	45	44	50	44	53	44	44	55	38	43	46	51	49	42	32	36	36	44	48	48.0
	Minimum	32	46	42	39	36	27	28	37	21	22	41	20	21	20	22	24	24	18	18	26	17	22	28	28	30	20	12	21	17	19	18	25.7
Stearns	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	52	67	63	64	60	45	55	59	52	46	54	58	40	46	45	50	47	42	40	51	49	38	44	43	45	42	40	28	37	36	50	48.0
	Minimum	30	40	43	42	43	35	34	40	35	30	35	30	20	26	17	20	35	17	20	25	22	20	31	30	30	30	15	10	20	20	15	27.7
Eastern Division.																																	
Ashland	Maximum	51	59	55	62	55	49	53	47	45	41	51	53	41	41	46	43	47	45	41	41	40	35	40	41	42	43	42	26	37	34	43	44.9
	Minimum	27	31	43	35	35	37	37	34	31	35	32	40	20	21	21	15	34	31	20	20	34	20	32	36	33	30	21	13	17	20	18	28.2
Berea	Maximum	61	63	57	60	56	44	54	54	50	41	57	48	39	49	42	48	47	43	44	54	43	39	45	47	43	46	45	33	38	41	46	47.6
	Minimum	37	47	32	41	41	35	34	36	34	31	32	31	19	25	19	20	39	20	18	26	29	16	35	33	32	37	12	9	21	18	19	28.3
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	61	68	68	57	46	45	50	48	50	36	59	38	34	43	37	51	42	58	36	47	48	35	43	43	40	41	25	27	33	36	43	44.2
	Minimum	24	37	43	37	38	37	35	34	32	33	32	38	18	15	15	42	33	26	14	18	31	14	35	35	28	28	19	10	13	18	13	27.1
Heidelberg	Maximum	61	64	67	64	66	45	56	56	46	40	57	55	42	51	41	46	46	46	45	58	45	40	44	48	49	48	48	32	34	41	47	49.0
	Minimum	24	32	32	36	32	32	28	28	35	32	34	30	42	20	16	17	15	32	35	16	17	22	15	28	28	27	14	24	28	10	12	15	17	26.1
Maysville	Maximum	63	60	58	62	52	43	54	55	45	44	55	53	28	48	39	48	47	40	43	51	42	38	43	46	45	41	44	28	38	31	48	46.0
	Minimum	27	41	45	38	43	37	35	35	34	35	33	40	19	21	16	17	36	19	16	20	32	16	33	35	31	27	20	12	17	17	14	27.8
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Maximum	55	59	60	63	56	48	54	54	46	44	40	49	58	45	46	41	48	47	46	41	46	40	37	43	46	49	52	51	32	38	40	42	46.9
	Minimum	25	31	44	39	34	34	28	34	34	32	30	45	26	21	22	19	32	31	24	21	32	21	33	36	32	31	25	16	17	28	19	28.7
Pikeville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pippapass	Maximum	58	32	33	32	33	31	39	35	33	32	28	45	23	20	19	20	18	17	20	20	35	19	31	39	29	30	25	12	15	15	20	26.7
	Minimum	28	32	33	32	33	31	39	35	33	32	28	45	23	20	19	20	18	17	20	20	35	19	31	39	29	30	25	12	15	15	20	[3]27.4
Quicksand	Maximum	42	44	52	54	59	57	..	51	34	39	56	29	28	46	44	52	50	51	54	60	..	..	..	..	..	..	..	..	..	..	..	..	[4]24.2
	Minimum	22	30	29	33	32	26	..	38	20	28	28	27	20	17	16	31	29	20	16	16	29	15	31	36	25	27	18	10	12	16	15	[4]20.4
Richmond	Maximum	62	65	65	69	56	48	55	55	42	48	54	43	40	42	42	44	42	44	44	50	50	40	40	42	48	46	46	25	32	37	40	46.6
	Minimum	35	46	45	44	50	35	39	40	40	32	35	40	21	25	20	28	40	30	23	30	30	20	35	33	32	35	22	10	22	22	20	31.4
Williamsburg	Maximum	38	40	51	54	45	46	47	43	41	40	61	56	53	54	51	48	51	45	43	49	49	49	48	42	38	42	39	40	39	38	33	41	31	48 3
	Minimum	21	25	36	42	32	32	21	32	30	31	37	34	21	26	23	28	27	11	20	25	20	29	18	23	27	16	11	12	24	13	26.4	
Winchester	Maximum	59	62	62	59	51	44	54	52	45	41	54	56	39	47	38	43	43	43	50	44	37	42	46	47	42	42	39	37	40	45	46.4	
	Minimum	33	44	42	44	39	35	33	39	33	31	32	31	19	18	17	22	38	27	20	24	28	20	29	34	22	32	19	10	21	18	18	28.2

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

[1], [2], [3], [4] etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville, 1:25.39, 110th

51.05
V1R2

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIII LOUISVILLE, KY., ANNUAL, 1938 No. 13

GENERAL SUMMARY.

Dry weather during the first three weeks of January, and comparatively light precipitation in February favored winter grains, outdoor feeding of livestock, and fair progress with plowing. Prevailing high temperature in February and March caused unusual growth and general improvement in grains, but so advanced the plants as to make them vulnerable to late freezes. The heavy and frequent March rains prevented farm work and seriously delayed planting of potatoes and early gardens. Most tobacco plantbeds were sown on the occasional fair days in the last half of March, but little else could be accomplished. The relative dryness of April largely retrieved the situation as to working the soil, while the high temperature of the last half pushed vegetation still further beyond its seasonal stage. The period of warmth and rapid growth in April and early May was followed by frequent rains that provided ample opportunity for tobacco transplanting. This wet weather in May, however, caused additional delay to plowing and corn planting, which remained behind on account of the March wet spell. Cool, cloudy weather and frequent rains in June prevented thorough curing of hay and caused much loss. Except for two short periods of dry weather in July, cloudy and rainy weather continued to impede haymaking during the summer months. Limited areas in the northern and western counties became too dry at times, otherwise rainfall was abundant throughout the summer. Pastures remained exceptionally good, usually luxuriant, during this period, but dry weather in the autumn rendered them useless before winter began. Frequent rains and high humidity in August hindered the cutting and curing of tobacco. A much larger proportion of the crop than usual was cut in that month, for earliness in maturing kept pace with the early start in the spring. Longer intervals of dry weather in September favored haymaking and tobacco cutting, but the frequent rains of the middle decade delayed both operations. The rain received at this time aided fall plowing. The warm and very dry weather of October completed the curing of tobacco and dried out corn. Late in the month the soil became too dry for plowing and seeding. The last cuttings of alfalfa and other late hay cured exceptionally well. November was relatively warm during the first three weeks, with sufficient moisture for moderate growth. Low temperature late in the month practically ended the progress of winter grains, while the plants were generally undersized. Deficient atmospheric moisture in the autumn and early winter made difficult the handling of tobacco. The cold dry weather of December was especially unfavorable for this work.

The Weather By Months.

January.---Cold weather, following heavy rains in the last week, caused some injury to grains, confined mainly to flat lands with slow drainage. The weather was more favorable than otherwise for winter vegetation, livestock, and the usual cold season farm and commercial activities. Its most important adverse influence was in the handling of tobacco.

February.—Frequency of precipitation, rather than the amount, interfered with plowing; but favored the completion of tobacco stripping. A brief period of subnormal temperature in the last week checked the untimely growth caused by the preceding warmth. Many tobacco beds were sown and some early gardening was done in southern districts.

March.—From its undersized condition in midwinter wheat had developed by the end of the month to a stage far ahead of its usual state. Irregularity in growth resulted from the effect of the wet weather on various types of soil. Standing water damaged grains and grasses in places. Strawberries began to bloom in the last week.

April.—Low temperature in the first decade checked the premature growth of grains. Fruits in southern and western districts were extensively damaged by the freezes. Barley and rye began to head in the third week and wheat in the last. Crop development was two weeks or more ahead of the average stage at this time.

May.—Tobacco transplanting began near the middle of the month, about a week earlier than usual. Barley harvest was in progress in the last week and wheat was nearly ripe. The wet weather caused rank growth of straw and some falling on the eastern and northern uplands.

June.—Except for some cut worm damage, perfect stands of tobacco were obtained. Low temperature and cloudiness slowed the ripening of wheat. Harvest began in the second week and threshing before the month closed. Light rainfall and generous sunshine in southwestern counties favored cotton.

July.—Excessive rains from the lower Green River Valley westward and in the mountain counties damaged hillsides by washing and bottom crops by overflow. Waterlogged soil produced scalding of tobacco and caused corn to fall. Forage crops grew more rank than desirable.

August.—Too much rain in the first decade continued to damage tobacco. Rust brought extensive injury to dark tobacco. Farmers were forced to heat barns to prevent houseburn. All crops improved in the dry weather of the last half.

September.—The rains improved pastures and late potatoes but damaged tomatoes. Abnormally cool weather in the third week delayed late potatoes and late gardens. Dry and very warm weather in the last week brought renewed growth.

October.—Grain sown early came up to good stands. Later on much of it sprouted and died because of failure of supporting moisture. Frost came late and caused no damage. Shortage of water for livestock developed in the hilly and upland sections.

November.—Very dry weather and high temperatures early in the month were accompanied by extensive forest and brush fires. Rain that stopped the fires in the first week started fall grains into better growth.

December.—The dryness of the surface soil prevented the freezes from causing any damage to grains during the first three weeks. Some injury followed the rains toward the end. The dry weather favored corn gathering and early winter work.

COMPARATIVE ANNUAL DATA FOR KENTUCKY.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	55.6	101	3	35.97	....	...	...	...	...
1890	57.1	101	4	58.82	....	...	...	..	...
1891	56.3	105	0	49.69	....	...	...	...	...
1892	55.3	101	— 6	44.25	....	...	...	..	...
1893	55.5	101	—22	44.71	....	...	...	...	...
1894	57.1	105	—12	34.81	....	...	...	..	...
1895	55.0	104	—18	38.47	....	..	156	103	104
1896	57.6	106	—12	44.68	....	94	151	111	104
1897	57.2	107	—16	46.72	8.1	111	168	97	100
1898	57.2	103	—12	52.38	12.5	103	153	110	102
1899	56.4	105	—30	46.38	24.6	112	155	105	106
1900	57.7	104	— 9	44.40	12.9	110	160	102	104
1901	55.3	112	—22	35.65	11.7	88	164	85	111
1902	56.5	107	— 3	44.35	14.0	102	162	91	112
1903	55.8	104	—16	41.16	12.9	106	170	87	108
1904	55.3	100	— 9	35.10	9.7	100	162	88	116
1905	55.8	106	—16	47.68	18.1	114	161	78	126
1906	57.0	100	—12	43.84	14.9	113	152	78	135
1907	56.1	102	—11	47.76	14.5	119	155	73	137
1908	57.7	104	2	41.94	9.5	109	166	82	115
1909	56.5	104	—14	51.41	10.0	108	158	82	125
1910	55.3	100	—20	50.67	30.6	111	168	74	123
1911	58.0	106	—16	46.77	6.6	117	155	67	143
1912	54.6	103	—20	47.03	27.0	108	165	74	127
1913	57.9	109	— 2	47.46	5.8	107	163	77	125
1914	56.3	109	—16	41.80	22.7	106	163	80	122
1915	56.2	102	0	51.92	14.4	114	150	93	122
1916	56.2	102	—14	45.49	23.9	106	174	87	106
1917	53.5	100	—21	46.01	42.8	106	155	91	119
1918	56.5	111	—20	40.64	24.9	106	159	87	119
1919	57.9	104	— 1	52.13	3.7	116	170	81	114
1920	55.5	100	— 6	46.90	10.1	104	154	81	131
1921	60.1	106	11	49.42	13.0	113	160	94	111
1922	58.5	103	1	44.43	3.0	119	170	87	108
1923	57.1	99	— 4	53.92	3.9	115	161	81	123
1924	55.0	103	— 9	42.68	6.3	105	169	79	118
1925	57.6	110	— 9	41.11	10.1	104	168	85	112
1926	56.1	107	—11	49.95	13.1	129	149	89	127
1927	57.8	103	— 3	53.45	10.5	123	157	88	120
1928	56.0	101	— 8	45.61	6.2	111	166	89	111
1929	56.2	101	—15	48.46	25.4	121	155	86	124
1930	57.6	114	—20	27.86	9.1	95	175	87	103
1931	59.0	106	— 9	41.98	4.6	114	168	77	123
1932	57.7	103	— 8	44.19	4.0	110	173	85	113
1933	58.4	106	— 9	50.61	6.9	115	154	86	125
1934	57.6	110	—19	37.14	11.8	100	171	90	104
1935	56.8	105	—14	57.40	13.3	123	151	91	123
1936	57.4	113	—25	37.94	20.4	97	170	98	103
1937	56.3	102	0	49.86	11.1	120	151	88	129
1938	58.8	101	— 4	45.78	6.1	101	92	112	61
Period	56.7	114	—30	45.60	13.6	109	156	87	117

†50-year averages.

Climatological Data for the Year 1938.

Stations.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).							Number of days				Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall, unmelted.	With precip. of .01 in. or more.	Clear.	Pt. Cloudy.	Cloudy.	
WESTERN DIVISION																				
Beaver Dam	Ohio	441	32	.....	96	July 11†	.....	.....	33	.....	7.86	July	0.76	Oct.	.....	.....	.....	.....	.....	s.
Birmingham	Marshall	.....	1	.....	.....	.....	.....	.....	8	.....	7.33	Mar.	.....	Oct.	.....	.....	.....	.....	.....	.....
Calhoun	McLean	437	36	.....	98	July 11	7	Dec. 27	36	.....	8.35	Mar.	.....	Oct.	.....	.....	.....	.....	.....	.....
Earlington	Hopkins	420	49	60.7	98	July 11	3	Jan. 27	49	45.23	8.24	July	1.02	Oct.	0.8	111	215	48	102	sw.
Ford's Ferry	Crittenden	356	.....	.....	.....	.....	.....	.....	10	43.00	12.00	Mar.	0.69	Oct.	3.8	121	.....	.....	.....	.....
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.78	Oct.	.....	.....	.....	.....	.....	.....
Greenville	Muhlenburg	519	22	58.8	96	Aug. 23†	− 4	Jan. 27	22	46.51	9.82	July	0.88	Oct.	4.5	103	189	114	62	s.
Hartford	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.52	Oct.	.....	.....	.....	.....	.....	.....
Henderson	Henderson	382	7	58.8	101	Sept. 8	− 2	Jan. 27	26	42.26	8.57	Mar.	1.05	Oct.	3.0	98	154	147	64	sw.
Hopkinsville	Christian	524	43	59.9	99	July 11	3	Jan. 27	43	41.17	6.20	May	0.33	Oct.	7.5	108	231	85	49	s.
Lovelaceville	Ballard	445	10	59.4	99	July 10	10	Jan. 27	10	44.10	9.55	Mar.	1.00	Oct.	3.0	74	208	82	75	s.
Mayfield	Graves	364	30	60.4	100	July 11	12	Jan. 28†	30	43.33	11.71	July	1.63	Oct.	2.0	92	193	108	64	s.
Murray	Calloway	412	13	.....	97	July 11	12	Jan. 27	13	48.40	10.01	Mar.	1.67	Apr.	0.8	91	.....	.....	.....	s.
Owensboro	Daviess	420	42	59.2	95	Aug. 23	0	Jan. 28	42	50.55	9.97	Mar.	0.68	Oct.	3.0	105	173	58	134	s.
Owensboro Dam 46	Daviess	404	.....	.....	.....	.....	.....	.....	11	44.78	9.99	Mar.	0.46	Oct.	2.6	117	.....	.....	.....	.....
Paducah	McCracken	341	.....	.....	98	Aug. 24	9	Jan. 27	57	43.11	8.68	July	1.31	Oct.	1.5	109	.....	.....	.....	.....
Paducah, near	McCracken	390	19	.....	.....	.....	.....	.....	21	.....	.....	.....	0.90	Oct.	.....	.....	.....	.....	.....	.....
Princeton	Caldwell	529	32	60.5	98	July 11	3	Jan. 27	34	46.32	9.21	July	0.98	Oct.	2.5	130	131	149	85	s.
Rumsey, Lock 2	McLean	384	.....	.....	.....	.....	.....	.....	22	45.27	8.62	Mar.	1.08	Oct.	4.1	120	.....	.....	.....	.....
Russellville	Logan	580	29	.....	96	Aug. 28	3	Jan. 27	27	54.09	11.83	July	0.43	Oct.	3.5	98	.....	.....	.....	s.
Uniontown Dam 49	Union	357	.....	.....	.....	.....	.....	.....	10	56.64	5.64	July	0.85	Oct.	3.5	120	.....	.....	.....	.....
CENTRAL DIVISION.																				
Addison Dam 45	Breckinridge	352	.....	.....	.....	.....	.....	.....	11	50.41	8.89	Mar.	0.55	Oct.	.....	130	.....	.....	.....	.....
Anchorage	Jefferson	700	39	55.9	95	July 11	− 3	Jan. 27	38	48.06	8.40	July	0.55	Oct.	8.0	108	171	77	117	sw.
Bowling Green	Warren	500	50	60.7	99	July 11	7	Jan. 27	56	51.17	11.05	July	0.92	Oct.	4.5	110	167	102	96	s.
Brownsville, Lock 6	Edmonson	410	.....	.....	.....	.....	.....	.....	22	49.79	7.08	May	0.29	Oct.	3.5	121	.....	.....	.....	.....
Burnside	Pulaski	705	.....	.....	.....	.....	.....	.....	48	56.65	7.62	Mar.	0.31	Oct.	7.2	135	.....	.....	.....	.....
Carrollton, Lock 1	Carroll	480	.....	.....	.....	.....	.....	.....	40	38.90	7.60	Mar.	0.42	Oct.	2.5	87	.....	.....	.....	.....
Cold Spring	Campbell	489	.....	.....	.....	.....	.....	.....	12	39.00	7.09	July	0.27	Oct.	5.0	131	.....	.....	.....	.....
Danville	Boyle	955	6	57.0	94	July 11	1	Jan. 28	6	43.70	7.06	May	0.23	Oct.	5.1	136	146	97	122	sw.
Dix Dam, Burgin	Mercer	770	15	59.4	96	Aug. 7	5	Jan. 27	15	46.16	7.97	May	0.26	Oct.	4.3	117	145	119	101	s.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	0.16	Oct.	.....	.....	.....	.....	.....	.....
Eubank	Pulaski	1177	45	.....	.....	.....	3	Jan. 27	45	.....	6.85	Aug.	0.60	Oct.	.....	.....	.....	.....	.....	.....
Frankfort	Franklin	504	47	58.8	98	Aug. 9	4	Jan. 28	48	48.76	6.86	July	0.14	Oct.	4.5	113	149	93	123	w.
Gest, Lock 3	Henry	490	.....	.....	.....	.....	.....	.....	33	41.88	7.74	Mar.	0.18	Oct.	4.9	110	.....	.....	.....	.....
Glasgow	Barren	780	13	.....	.....	.....	.....	.....	13	.....	.....	.....	0.60	Oct.	.....	.....	.....	.....	.....	.....
Grant	Boone	506	.....	.....	.....	.....	.....	.....	14	37.15	7.68	July	0.24	Oct.	.....	113	.....	.....	.....	.....
Greensburg	Green	581	46	58.2	97	July 11	1	Jan. 28	50	45.51	5.58	July	0.34	Oct.	4.0	115	.....	.....	.....	s.
High Bridge, Lock 7	Jessamine	544	.....	.....	.....	.....	.....	.....	37	44.23	6.57	May	0.23	Oct.	.....	133	.....	.....	.....	.....
Irvington	Breckinridge	646	41	58.9	93	July 11	− 2	Jan. 28	41	39.60	7.11	May	0.40	Oct.	1.2	102	169	67	129	sw.
Lancaster	Garrard	1032	.....	.....	.....	.....	.....	.....	13	46.57	7.27	July	0.43	Oct.	.....	125	.....	.....	.....	.....
Leitchfield	Grayson	635	43	59.0	98	July 11	− 1	Jan. 23	43	46.74	7.56	Mar.	0.46	Oct.	6.0	121	133	145	87	sw.
Lexington	Fayette	989	65	57.8	96	July 7†	3	Jan. 28	56	41.35	6.81	July	0.38	Oct.	9.4	142	.....	.....	.....	.....
Little Hickman, Lock 8	Jessamine	560	.....	.....	.....	.....	.....	.....	28	42.32	7.65	May	0.20	Oct.	7.0	96	.....	.....	.....	.....
Lockport, Lock 2	Henry	485	.....	.....	.....	.....	.....	.....	29	44.09	8.35	Mar.	0.22	Oct.	4.0	84	.....	.....	.....	.....
LOUISVILLE	Jefferson	525	66	58.7	97	July 11	7	Jan. 25	66	39.02	6.96	July	0.49	Oct.	2.1	125	134	109	122	s.
Bowman Field	Jefferson	558	2	58.6	95	July 11†	5	Jan. 27	2	40.11	6.23	Mar.	0.40	Oct.	.....	129	.....	.....	.....	.....
Mammoth Cave	Edmonson	.....	4	58.8	96	July 17	− 3	Jan. 27	4	56.63	7.77	Mar.	0.56	Oct.	4.2	134	172	91	102	sw.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	6.18	May	0.20	Oct.	.....	.....	.....	.....	.....	.....
Munfordville	Hardin	609	.....	.....	.....	.....	.....	.....	14	.....	8.66	Aug.	0.47	Oct.	3.3	.....	.....	.....	.....	.....
St. John	Hardin	777	43	58.5	96	Aug. 9	0	Jan. 28	43	49.13	7.73	Ma..	0.61	Oct.	2.0	108	212	94	59	.....
Salvisa, Lock 6	Mercer	520	.....	.....	.....	.....	.....	.....	25	45.36	7.10	Aug.	0.18	Oct.	.....	97	.....	.....	.....	.....
Shelbyville	Shelby	825	50	56.7	97	July 11	− 1	Jan. 28	50	47.23	6.85	July	0.38	Oct.	4.8	138	.....	.....	.....	sw.
Shepherdsville	Bullitt	500	.....	.....	.....	.....	.....	.....	3	.....	6.40	July	0.58	Oct.	3.0	.....	.....	.....	.....	.....
Smith's Grove	Warren	607	2	59.0	96	July 10†	0	Jan. 27	2	62.41	12.51	July	0.72	Oct.	.....	141	.....	.....	.....	.....
Stearns	McCreary	1400	3	58.8	91	July 11†	5	Jan. 27	3	48.20	7.56	Aug.	0.40	Oct.	5.5	147	.....	.....	.....	.....
Tyrone, Lock 5	Anderson	524	.....	.....	.....	.....	.....	.....	21	44.63	8.94	Aug.	0.30	Oct.	6.1	130	.....	.....	.....	.....
Williamstown	Grant	943	36	58.7	100	July 10	0	Jan. 28	36	42.65	7.18	May	0.00	Oct.	4.5	98	200	51	114	w.
Woodbury, Lock 4	Butler	504	.....	.....	.....	.....	.....	.....	22	49.06	7.56	Sept.	0.46	Oct.	4.2	119	.....	.....	.....	.....
EASTERN DIVISION.																				
Annville	Jackson	.....	.....	.....	.....	.....	.....	.....	8	52.05	8.27	May	0.52	Oct.	16.3	137	141	108	116	sw.
Ashland	Boyd	534	20	58.6	95	Aug. 14	8	Jan. 1	25	44.65	7.05	July	0.53	Oct.	7.5	136	158	82	125	w.
Berea	Madison	1070	37	.....	94	July 11	7	Jan. 27	37	.....	6.37	July	0.31	Oct.	10.6	.....	.....	.....	.....	sw.
College Hill, Lock 11	Madison	611	.....	.....	.....	.....	.....	.....	26	51.86	14.16	July	0.36	Oct.	8.2	125	.....	.....	.....	.....
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cynthiana	Harrison	684	.....	.....	.....	.....	.....	.....	22	.....	6.18	July	.....	.....	.....	.....	.....	.....	.....	.....
Falmouth	Pendleton	600	.....	.....	.....	.....	.....	.....	50	45.08	9.84	July	0.36	Oct.	3.9	123	.....	.....	.....	.....
Farmers	Rowan	668	32	.....	97	Aug. 5	− 2	Jan. 28	33	48.14	8.08	July	0.34	Oct.	10.1	115	132	63	170	w.
Flemingsburg	Fleming	870	.....	.....	.....	.....	.....	.....	14	50.84	10.45	July	0.70	Oct.	.....	97	.....	.....	.....	.....
Ford, Lock 10	Clark	593	.....	.....	.....	.....	.....	.....	23	37.19	6.47	May	0.23	Oct.	.....	122	.....	.....	.....	.....
Grayson	Carter	589	.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greenup, Dam 30	Greenup	540	.....	.....	.....	.....	.....	.....	19	43.71	7.13	Sept	0.50	Oct.	8.3	123	.....	.....	.....	.....
Hazard	Perry	869	.....	.....	.....	.....	.....	.....	15	53.10	8.38	July	0.82	Oct.	9.0	108	.....	.....	.....	.....
Heidelberg, Lock 14	Lee	663	4	58.1	95	Aug. 7	0	Jan. 28	22	59.62	9.77	July	0.55	Oct.	11.0	132	113	72	180	sw.
Jackson	Breathitt	776	.....	.....	.....	.....	.....	.....	4	59.42	11.79	July	T.	Oct.	27.5	97	.....	.....	.....	.....
Jenkins	Bell	1566	.....	.....	.....	.....	.....	.....	14	51.34	11.47	July	0.41	Oct.	14.0	130	.....	.....	.....	.....
Louisa	Lawrence	584	.....	.....	.....	.....	.....	.....	35	47.66	8.15	July	0.27	Oct.	12.0	108	.....	.....	.....	.....
Maysville	Mason	524	43	58.5	97	July 11	4	Jan. 28	43	47.29	9.87	July	0.26	Oct.	6.6	128	110	157	98	sw.
Middlesboro	Bell	1128	43	.....	96	Aug. 24	8	Jan. 28	48	.....	6.64	April	0.60	Oct.	.....	.....	.....	.....	.....	.....
Mount Sterling	Montgomery	980	49	.....	.....	.....	0	Jan. 28	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oneida	Clay	.....	.....	.....	.....	.....	.....	.....	2	.....	7.92	July	0.40	Oct.	.....	.....	.....	.....	.....	.....
Oneonta, Dam 36	Campbell	497	.....	.....	.....	.....	.....	.....	17	33.73	6.70	July	0.30	Oct.	12.9	126	.....	.....	.....	.....
Paintsville	Johnson	620	.....	.....	.....	.....	.....	.....	5	50.68	8.42	July	0.45	Oct.	14.9	136	.....	.....	.....	.....
Pikeville	Pike	636	3	59.2	96	July 11†	9	Jan. 28	38	48.11	6.83	June	0.34	Oct.	.....	134	.....	.....	.....	.....
Pippapass	Knott	1035	5	.....	98	July 10†	7	Jan. 28	5	.....	3.59	June	0.00	Oct.	11.2	.....	171	83	111	w.
Quicksand	Breathitt	732	12	.....	101	Aug. 9	0	Jan. 28	12	65.72	15.43	July	0.47	Oct.	13.0	101	.....	.....	.....	.....
Ravenna, Lock 12	Estill	631	.....	.....	.....	.....	.....	.....	21	47.67	10.94	July	0.40	Oct.	.....	116	.....	.....	.....	.....
Richmond	Madison	926	49	58.5	94	July 11†	4	Jan. 27	48	46.03	9.02	July	0.60	Oct.	5.0	117	171	77	117	.....
Valley View, Lock 9	Madison	571	.....	.....	.....	.....	.....	.....	25	42.65	7.51	May	0.13	Oct.	6.5	120	.....	.....	.....	.....
Vanceburg, Dam 32	Lewis	525	.....	.....	.....	.....	.....	.....	24	47.75	7.56	May	0.28	Oct.	.....	121	.....	.....	.....	.....
Williamsburg	Whitley	939	43	.....	97	July 11	10	Jan. 27	44	.....	6.28	May	0.31	Oct.	11.9	.....	174	100	91	.....
Willow, Lock 13	Lee	616	.....	.....	.....	.....	.....	.....	22	47.08	7.43	July	0.22	Oct.	9.0	109	.....	.....	.....	.....
Winchester	Clark	964	2	57.1	93	July 11	4	Jan. 27	2	40.51	6.31	July	0.23	Oct.	.....	132	.....	.....	.....	.....

All temperature data are taken from self-registering thermometers.
Reference letters, b, c, appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

†Also on other dates.

Monthly and Annual Precipitation for the Year 1938, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
WESTERN DIVISION.																										
Beaver Dam	.....	.....	.....	.....	.....	.....	1.64	−2.48	5.73	+1.50	5.27	+2.10	7.86	+3.88	2.99	−0.32	5.89	+3.21	0.76	−2.04	2.26	−0.92	1.49	−2.26	.....	.....
Birmingham	3.87	.....	2.48	.....	7.83	.....	1.69	.....	5.18	.....	3.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calhoun	.....	.....	2.52	−0.80	8.35	+3.78	1.62	−2.61	7.74	+3.76	3.12	−0.74	7.51	+4.01	.....	.....	.....	.....	.....	.....	3.29	−0.85	1.55	−2.41	.....	.....
Earlington	3.43	−1.61	2.35	−1.18	6.49	+1.91	2.51	−1.59	5.29	+1.18	3.02	−0.80	8.24	+4.79	3.65	+0.40	3.77	+0.90	1.02	−2.28	3.85	+0.21	1.63	−2.64	45.28	− 0.71
Ford's Ferry	4.59	−1.11	2.71	−0.13	12.00	+6.97	0.88	−2.56	3.25	+0.27	4.58	+0.98	5.21	+1.99	2.22	+0.17	2.60	−2.08	0.69	−2.21	2.58	−0.59	1.69	−1.38	43.00	− 0.40
Gilbertsville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.37	.....	.....	.....	0.78	.....	1.91	.....	1.85	.....	.....	.....
Greenville	3.65	−0.92	2.48	−0.73	7.03	+2.64	2.86	−1.50	5.10	+0.85	5.68	+1.52	9.82	+6.67	2.44	−1.02	2.49	−0.08	0.88	−2.84	2.62	−1.02	1.57	−2.59	46.51	+ 0.57
Hartford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.52	.....	3.44	.....	1.95	.....	.....	.....
Henderson	4.14	+0.49	2.87	+0.21	8.57	+3.16	2.75	−1.75	4.89	+0.96	2.31	−1.56	6.43	+3.24	3.32	+0.10	2.12	−1.34	1.05	−2.13	2.64	−1.15	2.17	−2.47	42.26	− 2.09
Hopkinsville	4.10	−1.12	3.35	−0.27	4.88	+0.01	2.80	−1.51	6.20	+2.08	2.31	−2.18	5.63	+1.90	6.14	+2.60	1.87	−1.25	0.33	−3.10	1.97	−2.06	1.59	−3.29	41.17	− 8.32
Lovelaceville	3.90	−2.02	4.05	+0.33	9.55	+3.86	1.60	−2.24	2.90	−0.60	1.63	−2.45	7.96	+2.58	3.73	+0.15	2.00	−2.21	1.00	−2.52	3.80	+0.44	2.08	−2.03	44.10	− 6.76
Mayfield	3.48	−1.68	3.29	−0.09	4.63	+0.60	1.48	−2.78	4.35	+0.33	3.19	−0.61	11.71	+7.97	3.53	−0.18	2.54	−0.44	1.03	−2.23	2.11	−1.77	1.93	−2.33	43.33	− 2.99
Murray	3.43	−2.10	3.50	+0.20	10.04	+4.04	1.67	−3.04	4.80	+0.30	5.13	+0.37	7.98	+4.65	2.79	−0.60	2.82	−1.40	2.62	−0.84	1.77	−1.66	1.85	−2.84	48.40	− 2.93
Owensboro	2.77	−1.50	1.80	−1.05	9.97	+5.70	1.09	−2.87	8.46	+4.53	6.40	+2.49	8.12	+5.09	4.90	+1.46	2.22	−1.02	0.68	−2.77	2.85	−0.47	1.29	−2.45	50.55	+ 7.14
Owensboro No. 2	3.36	−1.96	1.91	−0.71	9.99	+6.22	0.86	−2.62	7.51	+3.69	5.68	+1.56	5.46	+3.15	3.76	+0.66	1.82	−1.71	0.46	−2.47	2.62	−0.19	1.45	−1.72	44.78	+ 8.80
Paducah	3.75	−1.19	3.47	+0.16	7.99	+3.47	2.11	−2.31	3.13	−0.81	1.64	−2.58	8.68	+5.20	4.11	+0.37	1.56	−1.71	1.31	−2.01	3.59	−0.24	1.75	−2.44	43.11	− 4.09
Paducah, near	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.90	−1.59	3.39	−0.56	1.55	−3.29	.....	.....
Princeton	4.02	−0.95	2.30	−1.19	7.63	+3.53	1.42	−2.96	5.36	+1.24	4.46	+0.86	9.21	+5.37	4.55	+0.95	2.04	−1.30	0.98	−2.19	2.74	−0.55	1.61	−2.75	46.32	− 0.44
Ramsey, Lock No. 2 †	3.26	−1.26	2.62	−0.60	8.62	+4.12	1.72	−2.32	7.74	+3.50	3.01	−0.60	7.11	+4.03	2.47	−1.76	3.22	+0.07	1.08	−2.12	3.08	−0.44	1.34	−2.48	45.27	− 0.07
Russellville	3.78	−1.46	1.79	−1.69	3.27	−1.50	2.15	−2.45	6.20	−2.33	4.21	+0.57	11.83	+7.56	8.43	+5.32	7.69	+4.62	0.43	−2.45	2.65	−0.63	1.66	−2.32	54.09	+ 7.90
Uniontown	3.61	−1.51	2.39	+0.67	5.19	+1.26	1.91	−1.84	4.11	+0.93	1.98	−1.76	5.64	+2.47	3.71	+0.49	3.70	−1.00	0.85	−2.09	1.94	−0.82	1.71	−1.39	36.64	− 4.86
CENTRAL DIVISION.																										
Addison	4.52	−1.16	2.82	+0.16	8.89	+4.93	1.82	−1.87	8.46	+4.44	3.69	−0.21	4.65	+1.57	4.75	+1.61	5.81	+2.76	0.55	−2.52	2.82	+0.02	1.63	−1.98	50.41	+ 7.75
Anchorage	3.06	−1.11	2.31	−0.55	8.11	+3.85	2.31	−1.49	5.02	+1.29	3.60	−0.07	8.40	+4.36	4.55	+0.90	5.52	+2.80	0.55	−2.48	3.10	−0.14	1.53	−2.33	48.06	+ 5.02
Bowling Green	3.84	−1.38	1.52	−2.10	5.65	+0.55	2.96	−1.38	4.34	+0.15	2.72	−1.34	11.05	+7.07	5.79	+2.16	7.05	+3.66	0.92	−2.29	4.05	+0.41	1.28	−3.44	51.17	+ 2.07
Brownsville, Lock No 6	4.14	−1.38	2.15	−0.82	6.12	+0.89	1.60	−2.76	7.03	+3.03	4.31	+0.07	6.38	+2.98	6.81	+2.56	5.37	+2.15	0.29	−2.78	3.80	−0.06	1.79	−2.95	49.79	+ 0.02
Burnside	4.54	−0.27	1.86	−1.94	7.62	+2.41	4.97	+0.77	6.48	+1.98	4.54	+0.33	4.02	−0.40	7.03	+2.81	7.51	+3.89	0.31	−2.87	4.96	+1.50	2.81	−1.94	56.65	+ 6.20
Carrollton, Lock No. 1	2.48	−1.24	2.29	−0.31	7.60	+3.78	2.44	−1.21	5.46	+1.62	2.81	−1.72	4.31	+0.96	5.04	+1.22	1.00	−2.10	0.42	−2.46	3.31	+0.38	1.79	−1.96	38.50	− 1.50
Cold Spring, Dam 36	2.31	−0.97	2.62	+0.23	5.69	+2.14	2.11	−1.55	5.71	+1.86	1.80	−2.27	7.09	+3.21	4.68	+1.04	3.32	−0.57	0.27	−2.26	2.21	−1.03	1.19	−1.64	39.00	− 1.81
Danville	3.42	−0.26	2.16	−0.97	5.92	+2.01	2.31	−1.52	7.06	+3.05	3.74	−0.17	4.65	−0.01	6.12	+2.43	2.10	−1.42	0.23	−1.69	3.86	+0.85	2.13	−1.71	43.70	+ 0.59
Dix Dam, Burgin	3.48	−0.78	2.04	−0.93	5.84	+2.14	3.08	−0.02	7.97	+4.50	3.71	−0.63	6.98	+2.93	4.27	+0.61	2.77	−0.57	0.26	−2.72	3.71	+0.58	2.05	−1.65	46.16	+ 3.46
Eadsville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.71	.....	6.38	.....	0.16	.....	4.42	.....	3.62	.....	.....	.....
Enbank	2.71	−1.82	1.57	−1.82	5.32	+0.61	1.95	−1.99	5.20	+0.75	4.10	−0.15	5.34	+1.18	6.65	+2.37	4.71	+1.21	0.00	−3.16	5.06	−1.67	.....	.....	.....	.....
Frankfort	3.02	−1.22	1.81	−1.33	4.80	+0.42	3.50	−0.26	4.61	+1.33	3.43	−0.68	6.86	+2.90	4.93	+1.23	1.72	−1.04	0.14	−2.57	2.75	−0.24	1.18	−1.62	38.75	− 4.08
Gest, Lock No. 3	3.63	−0.42	2.72	−1.32	7.74	+3.18	2.61	−1.13	5.27	+1.97	2.68	−1.33	5.91	+1.75	8.83	+0.27	2.95	−0.19	0.18	−2.73	2.89	−0.36	1.47	−2.32	41.86	− 1.42
Glasgow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.60	−2.11	4.49	+0.24	2.62	−3.13	.....	.....
Grant, Dam 3	1.57	−1.52	2.65	+0.40	5.17	+2.15	1.74	−1.60	2.55	−0.54	1.88	−1.87	7.68	+4.11	4.27	+0.98	3.89	+0.41	0.24	−2.21	4.14	+1.37	1.37	−1.23	37.15	+ 0.45
Greensburg	4.08	−1.18	1.71	−1.90	5.24	+0.17	2.73	−1.16	5.10	+0.72	5.10	+0.67	5.58	+1.74	5.05	+0.87	4.01	+0.72	0.34	−3.05	4.42	+0.87	2.15	−2.37	45.51	− 3.50
High Bridge, Lock No 7	3.81	−0.81	1.97	−1.11	5.84	+1.54	3.62	+0.11	6.57	+2.91	3.14	−0.90	6.39	+2.34	3.82	+0.04	3.73	+0.83	0.33	−2.52	3.16	−0.02	1.95	−2.08	44.33	+ 0.38
Irvington	3.20	−1.21	2.15	−0.99	7.54	+3.07	1.43	−2.53	7.11	+3.88	3.69	−0.32	4.91	+1.84	3.21	−0.29	2.48	−0.47	0.40	−2.68	2.41	+0.16	1.12	−2.81	39.60	− 3.80
Lancaster	3.60	−0.71	2.11	−0.85	6.55	+1.70	2.18	−0.94	6.91	+2.56	3.82	−1.39	7.27	+2.88	4.19	+0.15	2.27	−0.66	0.43	−2.89	5.13	+1.87	2.11	−1.05	46.57	+ 3.12
Leitchfield	4.57	−0.40	2.87	−0.51	7.56	+3.14	2.21	−2.15	5.63	+1.46	3.68	−0.41	9.57	−0.09	5.30	+1.58	5.80	+2.33	0.46	−3.00	3.41	−0.53	1.66	−3.08	46.74	− 1.76
Lexington	3.77	−0.41	2.49	−0.13	5.56	+1.24	3.25	−0.25	4.75	+0.94	3.06	−0.99	6.81	+2.16	3.70	+0.23	2.26	−0.78	0.38	−2.21	3.60	+0.26	1.69	−2.04	41.35	− 2.06
Little Hickman, Lock 8	3.43	−0.98	1.81	−1.55	5.64	+1.28	2.72	−0.68	7.55	+3.77	5.28	+0.94	5.37	+1.61	4.78	+0.74	1.38	−1.82	0.20	−2.62	2.15	−0.99	1.91	−1.77	42.32	− 1.97
Lockport, Lock No. 2	4.06	+0.04	2.77	−0.10	8.35	+3.91	2.89	−0.84	5.69	+2.23	3.21	−1.17	4.90	+1.32	3.49	−0.29	3.40	+0.32	0.22	−2.64	3.43	+0.69	1.68	−2.00	44.09	+ 1.47
LOUISVILLE	2.47	−1.53	2.16	−1.39	6.76	+2.37	2.01	−1.87	4.66	+0.94	2.28	−1.69	6.95	+3.25	3.79	+0.37	2.99	+0.21	0.49	−2.16	3.13	−0.48	1.38	−2.86	39.02	− 4.24
Do. Bowman Field	3.14	.....	1.63	.....	6.23	.....	1.84	.....	5.15	.....	3.29	.....	5.17	.....	5.83	.....	3.87	.....	0.40	.....	2.14	.....	1.54	.....	40.11	.....
Mammoth Cave	4.39	.....	4.11	.....	7.77	.....	2.26	.....	6.46	.....	3.63	.....	8.00	.....	7.73	.....	6.00	.....	0.56	.....	3.66	.....	1.97	.....	56.63	.....
Monticello	.....	.....	.....	.....	.....	.....	.....	.....	6.18	.....	4.91	.....	3.01	.....	.....	.....	5.35	.....	0.20	.....	4.81	.....	2.86	.....	.....	.....
Munfordville	3.88	−1.58	1.91	−1.66	5.87	+2.10	2.14	−1.63	6.18	+2.44	.....	.....	6.50	+3.98	8.66	.....	3.88	+1.20	0.47	−2.93	3.88	+1.22	1.96	−1.12	.....	.....
St. John	5.02	+0.26	2.40	−1.22	7.73	+3.09	2.02	−2.22	6.51	+2.44	4.83	+0.57	5.33	+2.00	5.91	+1.98	3.34	+0.29	0.61	−2.66	3.79	+0.24	1.64	−2.88	49.13	+ 1.89
Salyersville, Lock No. 6	4.40	−0.18	1.99	−1.15	6.22	+1.10	0.44	−3.68	5.68	+2.17	2.53	−1.89	4.73	−0.93	7.10	+3.56	2.89	−0.17	0.18	−2.56	3.51	+0.21	1.94	−2.46	45.36	− 0.90
Shelbyville	3.93	−0.62	3.49	+0.09	6.50	+1.75	2.85	−1.06	5.02	+2.22	2.75	−1.26	6.85	+3.02	5.14	+1.45	4.08	−1.24	0.38	−2.54	3.64	+0.29	1.60	−2.58	47.23	+ 2.10
Shepherdsville	3.93	.....	1.91	.....	5.96	.....	1.80	.....	5.50	.....	3.34	.....	6.40	.....	1.85	.....	.....	.....	0.58	.....	4.19	.....	1.52	.....	.....	.....
Smith's Grove	5.01	.....	1.73	.....	8.16	.....	2.77	.....	6.63	.....	3.45	.....	12.51	.....	7.57	.....	8.98	.....	0.72	.....	3.50	.....	1.98	.....	62.41	.....
Stearns	4.46	.....	2.71	.....	3.76	.....	5.06	.....	6.42	.....	3.76	.....	3.99	.....	7.56	.....	2.53	.....	0.40	.....	5.34	.....	2.21	.....	48.20	.....
Taylorsville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tyrone, Lock No. 5	4.22	−0.22	2.35	−0.75	5.78	+2.13	3.19	−0.80	5.44	+1.94	2.43	−2.14	4.65	+0.47	3.94	−0.02	2.35	−0.94	0.20	−2.78	3.15	+0.26	1.93	−2.16	44.68	− 0.01
Williamstown	3.75	−0.11	3.08	+0.37	6.60	+2.56	2.78	−0.66	7.18	+3.54	1.74	−1.89	5.22	+1.66	3.57	−0.16	4.49	+1.86	0.00	−2.99	2.55	−0.37	1.08	−2.46	42.08	+ 1.36
Woodbury, Lock No. 4	3.99	−1.17	1.90	−1.61	6.22	+1.58	3.09	−1.03	4.44	+0.81	3.36	−1.04	6.14	+2.67	7.06	+3.23	7.59	+4.89	0.46	−2.57	3.21	−0.23	1.63	−2.69	49.06	+ 2.91
EASTERN DIVISION.																										
Annville	3.40	.....	1.79	.....	5.55	.....	3.58	.....	8.27	.....	4.14	.....	7.66	.....	5.28	.....	4.09	.....	0.52	.....	5.23	.....	2.53	.....	52.05	.....
Ashland	2.32	−1.78	2.32	−0.76	4.00	−0.32	4.28	+0.68	5.69	+1.68	5.65	+1.43	7.05	+2.86	3.01	−0.76	4.93	+2.51	0.53	−2.22	3.56	+0.66	1.29	−2.36	44.65	+ 1.61
Berea	3.24	−1.61	2.60	−0.59	4.73	−0.26	2.23	−1.42	.....	.....	5.76	+1.23	6.37	+1.53	.....	.....	2.90	−0.04	0.31	−2.77	3.37	+0.03	2.26	−2.00	.....	.....
College Hill, Lock No. 12	2.98	−1.50	1.70	−1.23	5.71	+1.12	3.78	+0.56	5.34	+1.40	4.24	+0.13	14.16	‡	4.85	+0.75	2.07	−0.75	0.36	−2.69	4.51	+1.61	2.16	−1.82	51.86	+ 6.68
Cumberland	6.20	.....	3.67	.....	4.30	.....	1.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cynthiana	2.90	−1.28	2.24	−1.08	4.49	+0.61	2.49	−1.17	3.00	−0.41	2.69	−0.67	6.18	+2.76	1.38	−2.57	3.31	−0.07	.....	.....	3.15	+0.12	1.57	−1.28	.....	.....
Falmouth	3.53	−0.48	2.89	−0.10	6.53	+2.41	2.16	−1.50	6.92	+3.39	2.47	−1.61	9.84	+6.19	3.52	−1.46	3.69	+1.07	0.36	−2.25	2.79	−0.16	1.88	−2.24	45.08	+ 3.27
Farmers	2.56	−1.78	2.17	−0.93	5.91	+1.44	3.68	−0.02	5.50	+1.58	5.27	+0.97	8.08	+3.70	5.66	+1.22	2.74	+0.02	0.34	−2.65	4.77	+1.78	1.46	−2.46	48.14	+ 3.01
Flemingsburg	2.78	−1.65	1.78	−1.31	5.29	+1.03	5.32	+1.43	4.47	+0.77	3.26	−1.18	10.43	+6.76	3.14	−1.72	3.67	+0.32	0.70	−2.61	3.31	−0.07	1.67	−1.73	50.84	+ 5.05
Ford, Lock No. 10	3.37	−0.90	1.96	−1.01	5.30	+1.14	3.35	+0.10	6.47	+2.97	2.95	−1.05	3.69	−1.11	2.58	−1.76	1.74	−1.28	0.23	−2.36	3.72	+0.86	1.85	−1.87	37.19	− 6.30
Grayson	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.66	+1.45	.....	.....	2.19	−0.34	1.27	−1.47	.....	.....
Greenup, Dam 30	2.25	−1.27	2.18	−0.65	4.73	+1.05	3.02	−0.47	4.82	+1.51	4.56	+0.82	6.25	+1.90	2.95	−0.64	7.13	+4.65	0.50	−1.66	3.74	+0.72	1.57	−1.72	43.71	+ 4.34
Hazard	4.76	+1.54	1.55	−2.91	6.10	+1.90	4.37	+1.08	5.00	−0.11	7.41	+8.99	8.38	+3.84	3.87	−0.14	2.86	−0.84	0.32	−2.72	5.78	+2.73	2.70	−2.02	53.10	+ 7.84
Heidelberg, Lock No 14	3.15	−1.11	2.16	−0.96	6.15	+1.40	3.13	−0.19	5.18	+1.20	3.34	−0.84	9.77	+4.69	5.79	+1.87	3.75	+0.61	0.35	−2.77	5.25	+2.34	2.60	−1.06	50.62	+ 5.54
Jackson	4.32	.....	2.51	.....	7.00	.....	4.67	.....	6.17	.....	4.65	.....	11.79	.....	6.10	.....	1.91	.....	T.	.....	7.51	.....	2.79	.....	59.42	.....
Jenkins	3.50	+0.16	2.52	−1.81	3.65	−1.20	2.86	−0.98	7.34	+2.57	4.99	+0.98	11.47	+7.08	3.94	+0.10	4.24	+1.30	0.41	−3.10	4.19	+0.47	2.75	−0.93	51.34	+ 5.28
Lonisa	2.77	−1.05	2.38	−0.38	4.97	+0.74	4.55	+1.21	4.81	+0.98	4.79	+0.03	8.15	+4.60	6.55	+2.84	1.90	−0.69	0.27	−2.80	4.50	+1.80	1.99	−1.65	47.66	+ 5.38
Maysville	2.83	−1.27	3.35	+0.25	5.61	+1.37	3.59	+0.02	5.65	+1.94	2.27	−1.78	9.87	+5.55	3.69	−0.21	6.29	+2.40	0.26	−2.46	3.06	+0.02	1.87	−1.91	47.29	+ 3.98
Middlesboro	5.74	+1.12	2.47	−1.55	5.32	+0.08	6.64	+2.16	6.44	+2.42	5.33	+0.71	4.10	−0.80	4.39	−0.17	1.10	−2.09	0.00	−2.98	.....	.....	.....	.....	.....	.....
Mount Sterling	.....	.....	.....	.....	4.65	−0.44	2.25	−1.81	5.55	+1.29	5.33	+0.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oneida	4.07	.....	2.24	.....	6.52	.....	4.68	.....	6.47	.....	6.59	.....	7.92	.....	4.40	.....	4.03	.....	0.40	.....	4.75	.....	.....	.....	.....	.....
Oneonta, Dam No. 35	2.81	−0.67	2.65	+0.22	5.58	+1.27	2.39	−1.55	4.47	+1.02	3.71	−0.99	5.50	+2.43	3.70	−2.65	2.64	−0.65	0.30	−2.12	2.36	+0.55	1.08	−2.38	33.73	− 8.00
Paintsville	2.78	.....	2.62	.....	5.46	.....	3.22	.....	5.84	.....	6.30	.....	8.42	.....	5.32	.....	2.87	.....	0.46	.....	5.13	.....	2.27	.....	50.68	.....
Pikeville	3.09	−0.69	3.62	+0.48	4.07	−0.25	4.53	+0.95	5.66	+2.12	6.83	+2.73	5.73	+1.51	5.42	+1.10	1.77	−1.19	0.34	−2.52	4.53	+1.57	2.52	−1.00	48.11	+ 4.81
Pippapass	4.15	.....	2.84	.....	5.44	.....	4.44	.....	4.47	.....	8.59	.....	.....	.....	4.23	.....	2.67	.....	0.00	.....	6.28	.....	3.62	.....	.....	.....
Quicksand	3.43	−0.48	2.41	−1.23	6.87	+1.06	5.40	+1.17	6.41	+1.27	4.86	+0.72	15.43	‡	6.58	+2.07	2.85	−1.00	0.47	−3.06	8.09	+4.22	2.92	−1.13	68.72	+15.18
Ravenna, Lock No. 12	2.21	−1.37	1.29	−1.78	3.83	−0.13	3.25	+0.14	5.47	+1.55	5.28	+0.77	10.94	+6.37	4.82	−0.28	4.09	+0.53	0.40	−2.49	4.47	+1.75	1.52	−1.89	47.67	+ 3.73
Richmond	2.80	−1.61	1.95	−1.23	6.15	+1.76	3.72	+0.13	4.35	+0.51	4.82	+0.74	9.02	+5.00	4.22	+0.26	1.90	−1.05	0.60	−2.37	4.00	+0.71	2.50	−1.72	46.08	+ 1.13
Valley View, Lock No. 9	3.63	−1.02	2.18	−1.19	5.69	+1.01	3.04	−0.24	7.51	+3.50	3.96	−0.74	6.14	+2.10	3.47	−0.55	1.40	−2.01	0.13	−2.87	3.89	+0.43	1.81	−2.80	42.65	+ 2.33
Vanceburg, Dam No. 32	3.29	−0.83	3.07	−0.36	5.62	+0.98	5.16	+1.42	7.56	+3.73	4.03	+0.06	6.93	+2.21	3.53	+0.08	3.65	+1.01	0.28	−2.72	2.90	+0.02	1.73	−2.07	47.75	+ 3.50
Williamsburg	3.20	−1.22	1.52	−1.99	4.01	−0.64	4.03	−0.22	6.28	+2.19	3.50	−1.08	.....	.....	5.28	+0.70	2.85	−0.67	0.31	−2.55	5.25	+1.80	1.77	−2.22	.....	.....
Willow, Lock No. 13	3.38	−0.37	2.09	−0.79	5.80	+1.59	2.63	−0.14	5.42	+1.62	4.75	+0.40	7.43	+2.61	5.40	+1.64	3.17	+0.11	0.22	−2.80	4.70	+1.32	2.90	−1.10	47.98	+ 4.09
Winchester	3.24	.....	1.93	.....	5.60	.....	3.03	.....	6.11	.....	3.48	.....	6.31	.....	2.96	.....	1.95	.....	0.23	.....	4.60	.....	1.63	.....	40.51	.....

The departures from normal precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. T. Precipitation is less than 0.01 inch rain or melted snow.

†4-10.10. ‡+10.00. ‡Ramsey Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River.

Errata.—June 1938, page 24: Maximum and minimum temperatures for Calhoun and Lexington are transposed.

Monthly and Annual Mean Temperatures for the Year 1938, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		Augnst.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
WESTERN DIVISION.																										
Beaver Dam	.....	.....	.....	.....	55.2	+ 7.6	60.0	+ 1.1	66.6	+ 0.3	73.0	− 1.2	78.1	+ 0.3	79.5	+ 3.1	71.2	+ 0.3	60.4	+ 1.7	48.5	+ 1.6	37.8	+ 0.7	.....	.....
Calhoun	.....	.....	45.2	+ 6.1	54.2	+ 5.8	60.0	+ 1.6	67.2	+ 0.6	70.9	− 4.2	78 8	+ 0.4	.....	.....	.....	.....	.....	.....	45.0	− 3.3	37.0	− 2.0	.....	.....
Earlington	37.4	+ 1.2	48.7	+10.9	57.4	+10.0	61.5	+ 3.7	67.8	+ 0.8	73.6	− 2.2	78.8	− 0.1	79.8	+ 2.6	72.2	+ 0.6	61.6	+ 2.0	50.3	+ 2.3	39.5	+ 0.6	60.7	+ 2.7
Greenville	35.8	− 1.2	46.6	+ 6.6	54.6	+ 7.3	59.2	+ 1.9	65.2	0.0	71.2	− 3.3	76 9	− 1.1	78.6	+ 2.5	*70.2	− 0.9	60.7	+ 1.4	48.4	+ 0.6	38.0	− 1.2	58.8	+ 1.1
Henderson	34.5	.....	46.4	.....	54.6	.....	58.9	.....	65.0	.....	71.7	.....	77.5	.....	77.9	.....	71.0	.....	61.4	.....	48.4	.....	37.8	.....	58.8	.....
Hopkinsville	37.8	− 0.1	48.8	+ 9.6	55.2	+ 6.4	60 6	+ 3.0	67.1	− 0.1	73.0	− 2.4	78.2	− 0.9	79.4	+ 1.5	70.7	− 1.5	61.4	+ 0.6	48.8	+ 0.3	37.8	− 1.2	59.9	+ 1.3
Lovelaceville	36.0	+ 1.6	47.2	+ 6.9	55.4	+ 6.5	59.0	+ 1.1	66.6	− 0.4	72.4	− 3.1	*77.8	− 2.0	79.0	.....	70.0	− 1.0	61.7	+ 1.7	48.1	+ 0.6	39.2	0.0	59.4	+ 1.7
Mayfield	38.0	+ 0.7	47.6	+ 7.6	55.8	+ 6.1	59.0	+ 0.7	66.6	+ 0.1	73.3	− 1.7	79.3	+ 0.4	*79.5	+ 2.0	72.0	− 0.2	63.9	+ 3.4	*49.4	+ 0.3	40.2	− 0.2	60.4	+ 1.6
Murray	36 6	− 1.6	46 9	+ 6.3	...	.....	60.7	+ 3.2	.....	.....	74.0	.....	78.4	− 1.0	80.4	+ 2.8	72.6	+ 0.9	64.2	+ 4.2	49.7	+ 1.6	40.3	+ 1.1	.....	.....
Owensboro	35.0	− 0.2	46.4	+ 9.9	53.8	+ 7.2	58.6	+ 2.9	65 4	0.0	72.0	− 2.1	76.5	− 1.3	77 4	+ 1.5	70.0	− 0.4	60.4	+ 1.7	48.0	+ 1.0	36.6	− 0.6	59.2	+ 2.6
Paducah	37.2	− 0.2	.....	.....	56.7	+ 6.9	60.9	+ 1.7	68.1	− 1.6	.....	.....	.....	.....	80.2	− 0.4	71.6	− 2.8	63 0	+ 1.7	*66.8	− 2.3	37 7	− 1.3	.....	.....
Paducah, near	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.3	.....	50.2	.....	40.0	.....	.....	.....
Princeton	39.6	+ 0.4	48.1	+10.3	56.4	+ 8.7	61.0	+ 2.9	67.4	+ 0.6	74.0	− 1 3	78.9	+ 0.3	79.3	+ 2.0	71.1	− 0.7	62.1	+ 2.9	49.0	+ 1.7	38.8	+ 0.1	60.5	+ 2.4
Russellville	35.3	− 0.8	45.5	+ 7.2	*52.6	+ 5.5	59.0	+ 1.6	*65.8	+ 0.1	71.8	− 2.8	*77.2	− 1.0	78.7	+ 1.7	69.6	− 2.3	58.2	− 1.2	.....	.....	34.2	− 4.6	.....	.....
CENTRAL DIVISION.																										
Anchorage	32.8	− 0.7	43.4	+ 8.9	51.2	+ 6.8	57.5	+ 3.7	64.2	+ 0.8	70.7	− 1.4	75.9	− 0.4	75.6	+ 1.1	68.2	− 0.8	58.6	+ 1.9	46.8	+ 2.0	35.4	+ 0.5	55.9	+ 1.1
Bowling Green	37.7	+ 0.2	48.3	+ 9.3	*56.4	+ 8.0	62.6	+ 4.1	67.5	0.0	74.2	− 1 8	79.2	− 0.1	79.8	+ 1.6	71.6	− 0.8	61.6	+ 1.7	49.8	+ 1.9	39.4	+ 0 4	60.7	+ 2 1
Danville	35.4	.....	44.6	.....	52.4	.....	58.2	.....	64.6	.....	70.2	.....	75.6	..	75.5	.....	68.0	.....	55.9	.....	46.3	.....	37.0	.....	57.0	.....
Dix Dam	37.3	− 0.3	47.0	+ 6.7	53.7	.....	59.8	+ 3.0	66.8	+ 1.9	72.0	− 1.9	78.2	+ 0.4	*78.0	+ 1.4	70.9	− 1.0	60.8	+ 2.0	49.6	+ 2.0	39.3	− 0.7	59.4	+ 2.1
Eubank	33.6	− 2.1	44.9	+ 6.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Frankfort	35.5	− 0.8	45.2	+ 8.4	52.4	+ 6.3	58.2	+ 2.6	65.6	+ 0.4	72.5	− 1.2	78.4	+ 1.2	77.8	+ 2.6	70.0	+ 0.5	58.8	+ 1.4	47.4	+ 0.8	37.7	+ 0.8	58.3	+ 2.0
Glasgow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.4	− 0.1	38.6	.....	.....	.....
Greensburg	36.8	+ 1.3	46.4	+10.1	54.1	+ 8.0	58.6	+ 3.1	65.5	+ 1.0	71.4	− 1.8	77.1	+ 0.5	77.6	+ 2 4	69.2	− 0.6	57 9	+ 0.8	47.0	+ 1.3	37.4	+ 0.1	58.2	+ 2.1
Irvington	35.3	− 0.9	46.0	+ 9.3	*54.0	+ 7.2	60.0	+ 3.8	66.2	+ 0.2	72.2	− 1.8	77.0	− 0.6	77.8	+ 1.9	70.8	+ 0.2	60.8	+ 3.6	48.4	+ 1.4	38.6	+ 1.8	58.9	+ 2.1
Leitchfied	35.8	+ 0.1	45.8	+ 9 4	54.1	+ 8.0	59.2	+ 3.3	66.1	+ 0.8	71.8	− 1.5	77.8	+ 0.7	78.6	+ 3.0	70.3	+ 0.1	61.1	+ 2.6	48.9	+ 2.1	38.2	+ 1.0	59.0	+ 2.5
Lexington	33.6	+ 0.7	43.8	+ 7.9	50.5	+ 6.8	57.5	+ 3 2	65.2	+ 0.9	73.2	+ 1.0	77.5	+ 1.6	77.4	+ 2.9	69.8	+ 1.3	59.4	+ 2.0	46.8	+ 2.0	37.2	+ 1.4	57 8	+ 2.8
LOUISVILLE	34.3	− 0.1	44.2	+ 7.0	52.4	+ 7 0	59.2	+ 2.8	66.2	− 0.4	72.6	− 2.1	78.6	0.0	78.4	+ 1.4	71.2	+ 0.7	60.8	+ 1.5	48.6	+ 1.9	38.0	+ 0.4	58.7	+ 1.7
Bowman Field	34.2	.....	44.8	.....	53.0	.....	59.3	.....	67.3	.....	72.2	.....	77.8	.....	78.4	.....	70.8	.....	69.9	.....	48.4	.....	37.2	.....	58.6	.....
Mammoth Cave	*37.1	.....	46.4	.....	55.9	.....	59.0	.....	64.6	.....	70.2	.....	75.8	.....	76.4	.....	68.0	.....	58.2	.....	47.3	.....	37.4	.....	58.3	.....
St. John	36.0	+ 1.7	45.1	+ 9.7	53.0	+ 8.0	59.8	+ 5.1	66.2	+ 2.1	71.6	− 0.9	76.3	− 0.1	77.7	+ 2.8	70.6	+ 1.2	60.8	+ 3.1	48.0	+ 2.2	37.2	+ 1.4	58.5	+ 3.0
Shelbyville	34.0	+ 0.1	43.0	+ 8.9	50.2	+ 5.6	56.8	+ 2.2	64.0	− 0.4	70.0	− 3.3	76.2	− 0.6	76.0	+ 0.8	68.6	− 1.0	58.7	+ 1.5	46.4	+ 1.6	36.4	+ 0.7	56.7	+ 1.4
Smiths Grove	35.8	.....	46.8	.....	53.8	.....	59.8	.....	69.3	.....	72.2	.....	77.6	.....	78.1	.....	69.8	.....	59.4	.....	47.1	.....	36.8	.....	59.0	.....
Stearns	36.1	.....	56.2	.....	53.4	.....	59.8	.....	64.9	.....	69.6	.....	75.6	.....	75.6	.....	68 3	.....	59.8	.....	47.2	.....	38 8	.....	58.8	.....
Williamstown	35.0	+ 1.8	44.0	+10.2	51.6	+ 7.9	59.6	+ 6.1	66.4	+ 2.7	73.2	+ 1.0	78.9	+ 2.7	78.8	+4.5	71.1	+ 1.9	59.8	+ 3.9	48.0	+ 2.8	37.8	+ 3.0	58 7	+ 2.1
EASTERN DIVISION.																										
Ashland	36.5	0.0	44.5	+ 6.8	52.2	+ 6.6	58.3	+ 2.7	65.2	+ 0.9	71.2	− 2.1	76.4	− 0.1	77.2	+ 2.4	70.0	− 0.5	58.4	+ 0.6	47.2	+ 0.1	36 6	− 2.1	58.6	+ 2.1
Berea	*37.4	+ 0.2	49.4	+ 7.6	53.8	+ 7.2	*60.8	+ 5.0	.....	.....	*70.4	− 2.5	76.6	+ 0.3	.....	.....	*68.8	− 1.1	59.8	+ 1.2	48.6	+ 1.1	38.0	0 0	.....	.....
Cumberland	37.6	.....	47.5	.....	55.6	.....	58.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.0	− 0.9	.....	.....
Farmers	35.3	− 0.3	*43.2	+ 6.3	51.0	+ 6.0	57.3	+ 2.8	64 6	+ 1.4	*68.8	− 2.5	76.8	+ 1.7	77.0	+ 3.7	69.8	+ 1.5	57.9	+ 1.4	.....	.....	36.0	− 0.9	.....	.....
Heidelberg	37.2	.....	45.6	.....	54.0	.....	58.4	.....	65.0	.....	70.4	.....	76.3	.....	77.4	.....	69.4	− 0.8	58 2	.....	47.6	.....	37.5	.....	58.1	.....
Maysville	35.2	+ 1.5	43.8	+ 8.7	51.6	+ 7.8	58.0	+ 3.7	65.0	+ 0.5	71.2	− 1.6	77.6	+ 0.8	77.5	+ 2.3	69.4	− 0.8	58.6	− 0.8	47.6	+ 2.4	36.9	+ 1.6	58.5	+ 3.1
Middlesboro	39.4	0.0	*42	+ 8.4	55.7	+ 7.8	*59.4	+ 2.7	66.8	+ 1.6	71.4	− 1.0	*76.2	+ 0.9	*76.8	+ 2.6	*68.4	− 1.2	*57.2	− 0.1	.....	.....	.....	.....	.....	.....
Mt. Sterling	32.9	− 1.1	41.6	+ 7.3	49.7	+ 5.9	56.4	+ 2.5	62.9	− 0.8	69.8	− 2.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pikeville	37.2	.....	*46.6	.....	54.4	.....	60.2	.....	66.8	.....	73.0	.....	78.0	.....	78.8	.....	70.6	.....	59.2	.....	48.4	.....	37.8	.....	59.2	.....
Pippapass	38.6	.....	.....	.....	57.0	.....	60.8	.....	65.6	.....	72.0	.....	78.2	.....	78.6	.....	.....	.....	60.3	.....	.....	.....	.....	.....	.....	.....
Quicksand	35.8	− 2.9	*41.8	+ 4.1	*52.2	+ 7.0	*57.1	+ 0.3	*65.2	+ 0.4	69.4	− 2.7	75.6	− 1.0	75.1	+ 0.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richmond	36.8	+ 1.5	45.6	+ 8.8	53.6	+ 8.0	60.7	+ 4.6	66.2	+ 0.7	71.6	− 1.9	77.4	+ 0 5	78.1	+ 2.6	71.0	− 0.1	61.8	+ 2.8	49.9	+ 2.7	39.0	+ 0.8	58.5	+ 1.8
Williamsburg	37.6	− 1.2	46.8	+ 7.4	54.4	+ 7.4	60.6	+ 4.0	66.1	+ 0.2	73.2	− 0.7	77.8	+ 0.6	78.8	+ 2.7	70.8	0.0	60.1	+ 0.6	45 9	− 1.7	.....	.....	.....	.....
Winchester	34.0	.....	44.2	.....	51.8	.....	57.5	.....	65.0	.....	69.8	.....	75.8	.....	75.6	.....	69.2	.....	59.8	.....	45.6	.....	37.3	.....	57.1	.....

All temperature data are taken from self-registerng thermometers.

The departures from normal temperatnre are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

KILLING FROSTS, 1938.

STATIONS.	Last in Spring.	First in Autumn.	STATIONS.	Last in Spring.	First in Autumn
WESTERN DIVISON					
Earlington	April 10	Oct. 24	Leitchfield	April 10	Oct. 21
Greenville	do 10	do 24	Lexington	do 10	do 25
Hopkinsville	do 10	do 21	Louisville	do 10	do 25
Lovelaceville	do 10	do 24	Mammoth Cave	do 10	do 25
Mayfield	do 10	do 24	St. John	do 10	do 21
Owensboro	do 10	do 24	Shelbyville	do 10	do 25
Princeton	do 10	do 24	Williamstown	do 10	do 25
Russellville	do 10	do 24			
CENTRAL DIVISON			EASTERN DIVISON		
Anchorage	April 10	Oct. 25	Ashland	April 10	Oct. 25
Bowling Green	do 10	do 25	[illegible]	do 10	do 28
Danville	do 10	do 21	[illegible]	do 11	do 21
Dix Dam	do 10	do 24	[illegible]	do 10	do 25
Eubank	do 10	do 26	[illegible]	do 11	do 25
Frankfort	do 10	do 25	[illegible]	do 11	do 21
Greensburg	do 10	do 21	[illegible]	do 10	do 25
Irvington	do 10	do 24	[illegible]	do 11	do 25

MONTHLY SUMMARIES, 1938.

MONTH.	Temperature. State average.	Temperature. *Departure.	Temperature. Highest.	Temperature. Lowest.	Precipitation. State average.	Precipitation. *Departure.	Average number of days. With .01 or more rain.	Average number of days. Clear.	Average number of days. Partly cloudy.	Average number of days. Cloudy.	Average Snowfall.
January	35.9	− 0.1	72	− 4	3.56	− 0.99	9	12	5	14	1.6
February	47.6	+ 8.6	77	6	2.97	− 0.96	11	7	6	15	0.6
March	53.7	+ 7.8	86	11	6.29	+ 1.60	13	8	10	13	T.
April	59.3	+ 3.1	91	22	2.85	− 1.11	9	14	8	8	T.
May	65.7	+ 0.3	93	32	5.73	+ 1.71	14	11	10	10	0.0
June	71.8	− 2.0	95	45	3.93	− 0.20	11	13	9	8	0.0
July	77.2	0.0	100	52	7.27	+ 3.10	11	13	9	9	0.0
August	78 0	+ 2.2	101	52	4 25	+ 0.74	10	16	10	5	0.0
September	70.3	− 0.2	101	37	3.52	+ 0.53	8	14	9	7	0.0
October	60 1	+ 1.9	95	24	0.48	− 2.24	2	24	4	3	0.0
November	47.9	+ 1.4	83	2	3.68	+ 0.26	9	16	5	9	3.7
December	37.9	+ 0.2	67	3	1.85	− 2.05	7	13	7	11	0.2
Annual means and extremes	58.8	+ 2.1	101	− 4	45.78	+ 0.18	114	161	92	112	6.1

*Compared with 50 years' normal.

NOTE—Tables and charts giving climatic data for Kentucky in detail during 1935 have been published for each month at the Kentucky section center, Weather Bureau Office, Louisville, Ky., and can be obtained from the Official in Charge at that office. Indexes to special articles published during past years in Kentucky climatological reports will be found in the Monthly Report for June, 1909,

W B O Louisville, 2-24-39-1250.

51.05
KE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., JANUARY, 1939 No. 1

GENERAL SUMMARY.

The abnormally high temperature of the first decade started winter grains to growing and caused some improvement in their condition. Buds on early blooming shrubs and trees expanded and began to open. Normal temperatures that followed checked this tendency before fruit buds were much affected. The weather of the middle and last decades was cold enough to prevent further untimely development of this kind. In this period fairly hard freezes at night and thawing in the daytime adversely affected winter grains on the heavier soils. The condition of wheat, especially the plants of small size, was lowered in such regions, but on the better drained soils there was no important deterioration. The relatively moderate winter temperatures, without abrupt changes or severe spells, favored egg production and the care of livestock. Winter plowing continued through the first three days and on a day or two in the second week, after which the ground was usually too wet or partly frozen.

Moderate to heavy rains about the middle of the first week were beneficial in augmenting water supplies and conditioning tobacco. Two other periods of rain provided opportunities for handling the weed; but in the long intervals between these rains atmospheric moisture was not sufficient or temperatures near freezing rendered it ineffective for softening the fiber. Cold dry winds also interfered with the work at times. Moderate snowfall in the northern counties protected grains for a few days, but melted off quickly and left the surface saturated. The freezes that followed had the most damaging influence on wheat. The snow was generally light in the southwestern counties. Toward the end of the month some farmers in the well drained districts to the west and south began to burn beds for sowing tobacco seed. As a rule, however, the soil was too wet and temperatures remained too low for this work to be pushed. The heavy rains of the last week stopped all efforts to work the soil. At this time winter plowing had reached a rather advanced stage.

TEMPERATURE.

The month averaged much warmer than normal, but the accumulated excess of heat occurred mostly in the first decade, when daily temperatures ranged from 8° to 25° above the seasonal temperature level. Later on the occasional warm days were balanced by a few that were moderately cold. The extreme temperatures usually experienced in this month were notably absent. The range for the State was between 74° at Hopkinsville on the 9th and 11° at several stations on the 23d.

PRECIPITATION.

Precipitation averaged considerably above normal for this month. It was less than normal at most stations near the northeastern and southern boundaries, where it varied between 3.0 and 4.0 inches. Westward in the mountains and most of the Blue Grass region it ranged from 4.0 to 6.0 inches. Farther west practically all districts received from 6.0 to 8.0 inches. The range for the State was between 2.78 inches at Grayson and 9.51 inches at Calhoun. Moderate to heavy rains occurred generally in the periods 4-6th, 13-14th, and 29-30th. Light to moderate and somewhat local precipitation visited most districts on the 9-10th, 16-19th, 22d-24th, and 31st. With some local exceptions in the western counties about the 4-5th, the heaviest rain fell on the 29th and 30th. The total snowfall ranged from 1.0 inch in the southern counties to 5.0 inches or more in northeastern districts. Most of it fell on the 13th and 23d. Thunderstorms were reported from some western sections on the 4th and 29th, and from central and northern localities on the 5th.

MISCELLANEOUS.

January.—A windstorm caused damage to buildings and wire systems in Rockcastle County estimated at $20,000. Minor damage to trees and wire systems also occurred at Louisville.

Rivers.—The heavy rain late in the month lifted most streams of the State to moderate stages, and caused the first good rise of the winter in the Ohio. This rise was in progress along the border of the State when the month closed.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			Percentage of sunshine
	Mean.	Highest.	Date.	Lowest.	Date.	Av., hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo .....Ill.	30.05	30.50	25	29.23	30	10.2	29	sw.	5	77	61	64	47
Cincinnati .....Ohio	30.04	30.43	25	29.30	30	9.2	30	w.	22	82	65	71	33
Evansville..... Ind.	30.05	30.50	25	29.23	30	10.7	33	sw.	5	76	64	66	37
Louisville .....Ky.	30.05	30.48	25	29.28	30	12.0	35	w.	26	76	62	70	36

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	38.0	65	13	3.52	....	..	..	..	..
1890	44.0	77	10	6.43	....	..	..	..	..
1891	37.9	68	14	5.40	....	..	..	..	..
1892	29.0	65	− 6	2.72	....	..	..	..	..
1893	26.0	67	−22	2.08	....	..	..	..	..
1894	38.0	78	−12	2.91	....	..	..	..	..
1895	30.0	78	−16	5.71	....	11	8	8	15
1896	36.1	74	− 3	1.25	....	6	9	7	15
1897	32.0	75	−16	3.25	4.2	8	11	8	12
1898	40.4	72	6	8.76	1.4	12	8	8	15
1899	34.4	68	−18	6.23	8.5	11	9	8	14
1900	37.2	77	− 8	2.80	0.9	8	12	8	11
1901	36.7	75	4	1.85	0.8	7	12	7	12
1902	33.7	70	5	5.14	2.3	7	14	5	12
1903	34.8	82	− 9	2.50	2.8	9	11	6	14
1904	32.3	70	− 9	3.17	2.5	10	13	5	13
1905	27.5	70	−15	2.83	12.8	11	10	5	16
1906	39.7	80	− 9	3.48	3.1	8	11	6	14
1907	45.2	83	−11	8.02	4.8	14	7	6	18
1908	35.0	62	7	2.20	1.0	8	13	5	13
1909	38.3	77	− 8	3.47	5.7	9	5	6	20
1910	33.8	70	−20	4.41	11.0	10	9	5	17
1911	39.7	73	−16	2.88	4.4	11	7	4	20
1912	25.9	61	−20	3.09	11.7	8	13	4	14
1913	42.5	76	13	11.41	1.4	14	8	6	17
1914	39.4	79	5	2.31	1.0	6	9	7	15
1915	33.0	65	0	5.03	7.0	13	8	7	16
1916	41.2	78	− 5	7.27	3.7	14	9	6	16
1917	36.7	74	−17	6.38	12.0	12	8	8	15
1918	20.6	62	−20	5.09	23.3	14	9	7	15
1919	37.9	68	− 1	3.62	1.6	7	16	6	9
1920	33.4	72	− 6	6.75	0.7	10	10	6	15
1921	39.7	71	12	3.06	4.0	10	10	7	14
1922	34.6	67	1	2.25	1.1	8	12	7	12
1923	41.0	68	11	6.11	T.	12	8	6	17
1924	31.3	66	− 8	5.05	1.2	9	15	5	11
1925	35.8	66	− 9	2.60	4.1	10	12	6	13
1926	34.4	69	−11	4.01	7.1	10	12	5	14
1927	35.8	76	− 3	6.33	2.2	12	9	6	16
1928	35.0	76	− 8	2.47	1.9	8	14	7	10
1929	34.8	76	− 6	4.54	1.8	13	9	7	15
1930	34.6	75	−20	4.85	3.8	13	11	5	15
1931	37.7	72	− 9	1.23	2.3	6	13	5	13
1932	44.9	80	14	8.13	0.2	14	11	5	15
1933	43.9	74	10	5.18	0.1	12	12	8	11
1934	40.4	72	− 3	1.55	0.2	8	11	6	14
1935	37.3	71	− 2	5.28	3.4	9	11	6	14
1936	29.4	68	−25	2.99	6.2	11	10	7	14
1937	43.6	76	13	18.77	2.0	17	4	4	23
1938	35.9	72	− 4	3.56	1.6	9	12	5	14
1939	40.4	74	11	5.56	2.1	11	8	5	18
Period	36.0	83	−25	4.57	4.1	10	11	6	14

†51 year averages.

Climatological Data for January, 1939.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation in inches Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of days: With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Western Division.																				
Beaver Dam	Ohio	441	27	[a]41.8	+ 6.5	69[c]	8†	19[c]	19†	33[c]	5.43	+0.99	1.29	2.0	13	9	0	22	se.	Eldred G. Young.
Calhoun	McLean	437	35	39.4	+ 2.3	70	9	12	23	39	9.51	+4.55	2.28	2.5	13	9	2	20	.....	R. C. Bennett.
Earlington	Hopkins	420	45	42.6	+ 6.4	70	9	21	19	33	8.09	+3.05	1.92	0.6	11	11	6	14	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	6.68	+0.98	2.57	4.8	13	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	6.77	.....	2.33	.....	11	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	40.7	+ 3.7	70	8	17	23†	37	5.29	+0.75	1.32	1.0	11	10	8	13	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	6.00	.....	2.38	6.0	11	11	2	18	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	40.5	.....	68	2	16	23	34	6.53	+2.88	2.50	3.5	9	9	9	13	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	41.0	+ 3.1	74	9	17	27	36	6.33	+1.01	1.41	1.0	8	14	4	13	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	41.3	+ 6.9	67	3	20	23†	37	6.60	+0.58	1.45	2.0	8	13	6	12	s.	Blaine Malone.
Mayfield	Graves	364	30	42.6	+ 5.3	69	3	21	23†	30	7.65	+2.49	2.16	2.5	12	12	7	12	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	42.1	+ 3.9	68	9	25	19†	30	6.18	−0.35	1.78	3.7	9	15	3	13	s.	Pat W. Wear.
Owensboro	Daviess	420	42	38.9	+ 3.7	69	9	19	23	37	5.73	+1.46	2.00	2.0	13	11	0	20	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	6.76	+0.44	2.59	2.0	14	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	[a]40.6	+ 3.2	70[a]	8	20	1	40[a]	6.26	+1.29	2.57	2.0	10	12	2	17	.....	U. S. Engineers.
Paducah (near)	McCracken	396	19	[a]42.6	+ 5.7	70[a]	8	20[b]	23†	37[a]	5.98	+0.12	2.42	3.0	7	11	6	14	.....	Joe Lagore.
Princeton	Caldwell	529	32	42.0	+ 5.8	71	9	20	23†	35	7.81	+2.84	3.65	3.0	11	9	9	13	s.	Dr. W. L. Cash.
Ramsey, Lock 2	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	6.39	+1.75	2.17	1.0	12	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	38.2	+ 2.1	69	9	20	23	36	6.23	+0.99	1.45	.....	9	11	5	15	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	5.89	+0.87	2.36	2.0	14	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	382	11	.....	.....	.....	.....	.....	.....	.....	5.85	−0.33	1.81	0.8	14	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	38.4	+ 4.9	68	3	13	23	34	4.70	+0.69	1.50	3.6	11	10	2	19	se.	C. E. Barret.
Bowling Green	Warren	500	43	43.1	+ 6.6	69	9	22	23	39	7.78	+2.56	2.41	0.5	13	10	6	16	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	6.98	+1.46	1.75	T.	11	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	5.65	+0.84	1.50	0.2	15	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	4.24	+0.52	1.46	3.8	9	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	3.73	+0.45	1.35	4.5	12	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	40.4	.....	68	3	14	23	32	6.52	+2.84	1.56	2.4	15	8	6	18	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	40.8	+ 3.2	68	3	15	23	33	6.03	+1.77	1.45	.....	11	8	5	18	sw.	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	5.37	.....	1.55	.....	13	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	11	23	.....	4.92	+0.49	1.39	T.	8	9	8	14	s	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	39.2	+ 2.9	68	3	13	23	38	4.81	+0.57	1.78	1.0	11	8	3	20	w.	Lockmaster.
Gest, Lock 3	Henry	450	29	.....	.....	.....	.....	.....	.....	.....	4.45	+0.40	1.65	1.8	12	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	41.2	+ 1.2	68	10	19	19	37	5.85	+1.54	2.04	.....	11	9	15	7	w.	L. L. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	3.87	+0.78	1.45	2.5	13	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	39.7	+ 4.2	67	3†	15	23	36	7.16	+1.90	1.72	...	11	3	1	27	s.	Mrs. Bettie K. H. Alcorn
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	6.0[c]	+1.40	1.36	.....	15	.....	.....	.....	.....	W. J. Piggot.
Irvington	Breckinridge	646	41	41.0	+ 4.8	66	3†	19	23	33	4.55	+0 14	1.13	1.5	8	10	1	20	sw.	Walter Killion.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	6.86	+2.55	1.58	.....	14	.....	.....	.....	.....	H. H. Willis.
Leitchfield	Grayson	695	43	40.9	+ 6.2	68	3	18	23	37	5.69	+0.70	1.81	1.0	12	9	8	14	sw	U. S. Weather Bureau.
Lexington	Fayette	989	55	38.0	+ 5.1	67	3	15	23	30	5.94	+1.76	2.32	5.7	17	.....	.....	.....	.....	Lockmaster.
Littlefickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	6.79	+2.38	1.70	.....	11	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	4.87	+0.85	1.78	2.5	12	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	40.6	+ 6.2	67	9	14	23	28	4.42	+0.42	1.77	2.9	12	5	6	20	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	1	40.2	....	67	3	18	23	32	4.84	.....	2.11	2.7	13	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	40.2	.....	70	3	13	23	37	8.12	.....	2.01	0.9	14	8	2	21	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	5.72	.....	1.77	T.	14	13	6	12	.....	E. O Cooper
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	7.51	+2.05	2.05	.....	11	.....	.....	.....	.....	Mrs. M. W. Price.
St. John	Hardin	777	43	39.4	+ 5.1	67	3†	16	23	41	6.35	+1.59	2.05	1.2	12	10	5	16	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	6.64	+1.97	1.55	T.	12	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	37.4	+ 3.5	64	3	12	23	31	4.94	+0.39	1 38	3.7	11	11	0	20	s.	Wills S Ratta,
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	6.42	.....	1.81	2.0	11	9	12	10	sw.	A. McLeod.
Smith's Grove	Warren	607	1	41.5	.....	69	9	20	23†	34	7.23	.....	2.64	1.0	13	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	[d]41.2	.....	68[d]	4	18[d]	23	33[d]	5.52	.....	1.86	1.0	16	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	5.89	+1.45	1.73	0.3	14	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	942	36	39.7	+ 6.5	69	3	11	23	35	4.32	+1.46	1.30	4.5	6	14	0	17	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	6.18	+1.03	1.68	0 8	13	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	38.1	.....	68	4	13	23	38	5.76	.....	1.34	5.0	14	8	10	13	sw.	W. A. Worthington.
Ashland	Boyd	534	22	38.6	+ 2.1	63	9†	12	23	35	3.39	−0 67	1.52	3.0	15	7	11	13	w.	Lockmaster.
Berea	Madison	1070	36	40.4	+ 3.2	67	4	13	23	29	5.65	+0.80	1.73	0.2	10	8	9	14	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	5.82	+1.34	1.83	T.	13	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	4.40	+0.22	1.27	4.0	8	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	4.67	+0.66	1.46	4 1	12	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	32	38.1	+ 2.8	65	4†	11	23†	34	4.89	+0.55	1.82	4.0	13	3	9	19	w.	Lucille C- Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	4.01	−0.42	1.15	2.6	8	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	23	.....	.....	.....	.....	.....	.....	.....	6.13	+1.86	1.82	.....	15	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	2.78	.....	1.20	1.5	5	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	3.71	+0.18	1.45	6.0	15	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	4.31	+1.09	1.04	.....	13	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	1	40.0	.....	68	3	14	23†	39	5.20	+0.94	1.79	T.	16	6	5	20	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	5.47	.....	1.40	.....	14	.....	.....	.....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	3.00	−0.33	0.91	T.	12	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	4.8[c]	+1.06	1.76	.....	11	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	41	38.4	+ 4.7	68	[e]3	11	23	35	4.13	+0.03	1.39	5.4	14	4	10	17	sw.	Lockmaster.
Middlesboro	Bell	1128	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Garret Combs.
Onconta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	3.73	+0.25	1.41	7.2	13	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. L. Ponta.
Pikeville	Pike	636	3	41.2	.....	71	4	17	23†	35	3.12	−0.66	0.80	1.0	11	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	5	41.2	.....	65	4	15	23	37	3.24	.....	0.38	T.	9	14	4	13	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	39.0	+ 0.3	71	3	13	23	45	5 98	+2.07	1.30	T.	13	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	4.05	−0.47	0.83	.....	14	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	40.6	+ 5.3	66	3	18	23	22	6.35	+1.91	1.70	.....	13	8	14	9	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	6.15	+1.53	1.40	0.5	11	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	3.71	−0.41	1.55	3.5	14	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	.....	.....	.....	.....	12	23	.....	4.74	+0.32	1.37	1.0	14	11	7	13	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	6.19	+2.44	1.73	.....	12	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	...	38.7	.....	64	4	14	23	36	5.86	.....	2.07	2.0	16	.....	.....	.....	.....	Airway Station.
State averages and extremes				40.4	+ 4.4	74	9	11	23†	45	5.56	+0.99	3.65	2.1	11	8	5	18	s.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. [c]Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

† Also on other dates. [d] Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for January, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam..... G.				.39	.85				.03	.08			1.29	.02	.05	T.	.19	.05				.05	.12	T.					1.18	1.13		5.43
Calhoun..... G.				1.00	1.36				.80	.70			.95	.50	.20		.14	.90				.10	.10	T.			T.		2.28	.48		9.61
Darlington..... G.				1.20	1.92				.03	.31			.22		.12		.20	1.28					.32						.77	1.72		8.69
Fords Ferry Dam 60[2]..... O.				.05	2.25					.06			.33	.02	.03	.05		.24	T.			.10		.16			T.		.76	2.55	.08	6.68
Gilbertsville[2]..... T.				.15	2.09					.33			.67	.07				.82						.16					.58	2.33	.07	6.77
Greenville..... G.				.85	.90					.17			1.12	.05	.05		.05	.12					.15						.98	1.32		5.29
Hartford..... G.				.29	1.05					.30			.95	T.	.04		.14	.19				.07	.25	T.					2.38	.84		6.00
Henderson..... O.				1.80	.66				.11	T.			.58	T.			.20	.18				T.	.13						2.60	.37		6.53
Hopkinsville..... K.					1.41					.20		T.	1.30	.26				.60					.10						1.25	1.19		6.88
Lovelaceville..... M.				1.45					.15				.65				.40						.30					1.00	1.45	1.10		6.50
Mayfield..... M.				1.47	.89				.22	.21		.06	.79	.03			.29	.05					.20						2.15	1.29		7.65
Murray..... T.					.68				.20			.16	1.00				.47						.20	.12					1.78	.57		5.18
Owensboro..... O.				2.00	1.23	.03			.02	.07			.62	.04	.01	.08	.04						.02						1.55	.02		5.73
Owensboro, Dam 46[3]..... O.				.21	2.59	.05				.09			.22	T.	.01	.08		.16	.01			.02		.09	T.		T.		.77	1.37	.09	5.76
Paducah[2]..... O.				.03	1.08					.11			.53	T.	.01	T.		.22				T.		.25			T.		.84	2.57	.02	6.26
Paducah (near)[4]..... O.				1.62					.14				.46				.24						.24						.86	2.42		5.98
Princeton..... G.				3.65					.05	.27		T.	1.05	.04	T.	.20		.06				.10	.22	T.		T.		T.	1.55	.62		7.84
Rumsey, Lock No. 2[5]..... G.				.04	2.17					.13			.64	.24	.04			.19	T.			.08		.13			I.		.62	1.98	.13	6.39
Russellville[2]..... G.				.08	1.06					.16			1.38			.26		.43						.18					1.45	1.23		6.23
Uniontown, Dam 49[2]..... O.				.10	1.81	.02				.05			.23	.24	T.	.05		.25	.01			.03		.09			T.		.69	2.36	.06	5.89
Central Division																																
Addison, Dam 45..... O.				.10	1.22	.02				.18			.18	.19	T.	.16		.40	.06			.11		.10	T.		T.		.67	1.81	.15	5.35
Anchorage..... O.				.50	.16				.06	.12			.93		.32	.12	.10		T.				.04		T.	T.			1.56	.61		4.76
Bowling Green..... G.				.13	1.16					.10			1.45	.05		.20		.25	.05			.10		.15			.02		.80	2.41		7.78
Brownsville, Lock No. 6[2]..... G.				.04	1.29					.24			1.26	.05		.16		.35						.16					1.62	1.75	.06	6.98
Burnside[2]..... C.				.12	.65	.03				.33			1.50	.30		.15		.35	.03			.11		.15			.05		.56	1.27	.05	5.65
Carrollton Lock No. 1[2]..... K.					1.09	.10				.04			.23	.05		.35		.16											.76	1.46		4.24
Cold Spring, Dam 36[2]..... O.				T.	.67	T.				.07			.20	.35		.23		.14	.10	.01	T.		.07	T.		T.			.53	1.35	.11	3.73
Danville[2]..... K.				.13	1.14	.08				.06			1.15	.17		.10		.32	.04			.07		.17	T.		.02		1.38	1.56	.16	6.62
Dix Dam, Burgin..... K.				1.23	.03				.11			1.16		.12			.37	.03				.06							1.45	1.30	.15	6.03
Eadsville[2]..... O.				.11	.62					.38			1.55	.06		.11		.41	.02			.11		.12					.81	.95	.12	5.37
Eubank..... C.				.19	.87					.93		.87											.31		.29		.07			1.39		4.92
Frankfort, Lock No. 4[2]..... K.				T.	.82	T.				.10			.79	.19	T.	.09		.18	.01			T.		.03	T.		T.		.69	1.78	.13	4.81
Gest, Lock No. 3[2]..... K.					1.19	.08				.12			.36			.05		.18	.03					.05	.03				.66	1.65	.03	4.45
Glasgow..... G.				.18	.23					.15			1.64		T.	.03		.43	T.			.04		.11					.97	2.04	.08	5.85
Grant, Dam 33[2]..... O.					.68	.03				.06			.17	.17	T.	.21		.13	.05	.04	T.			.10					.76	1.45	.02	3.87
Greensburg[2]..... G.				.52	1.25								1.40	.11	.02	.05		.35						.18					1.45	1.72	.11	7.16
High Bridge, Lock No. 7[2]..... K.			.02	.03	1.17	.03				.08			1.13	.22	T.	.18	T.	.37	.08			.03		.06	T.				1.19	1.36	.08	6.02
Irvington..... O.				.60	.71				T.	.08			.98	T.		T.		T.	.39				.03	T.		T.			1.13	.63		4.55
Lancaster[2]..... K.			.12	.92	.07				.08			1.40	.20		.20		.40	.02			.05		.07				1.55	1.58	.20		6.86
Leitchfield[2]..... G.				.07	1.31					.17			.81	.22	.06	.22		.26						.24					1.15	1.04	.14	5.69
Lexington[2]..... K.				.74	.70				.01	.05		.61	.63		.04	.06	.15	.31			.03	.01	.08	.01	T.	.02		T.	2.32	.17		5.94
Little Hickman, Lock No. 8[2]..... K.				.50	1.03	.06							1.35	.20		.14		.38	T.			T.		.15	T.				1.70	1.10	.18	6.79
Lockport, Lock No. 2[2]..... K.				.25	.83					.26			.26	.21		.17		.21	T.			.10		.06					.70	1.78	.08	4.87
Louisville[2]..... O.				1.05	.19				.06			.07	.69	T.	.26	T.	.17	.02		T.	.01		.03	T.		T.			1.77	.10		4.42
Do. Bowman Field..... O.				T.	1.04	.02				.12			.66	.21	T.	.38		.16	T.	T.		.02		.02	.03		T.		.70	1.41	.03	4.84
Mammoth Cave[6]..... G.				.15	1.56					.21			1.44	.06	.02	.16		.40	T.			.05		.20			.10		2.01	1.67	.09	8.12
Monticello[2]..... C.				.18	.66	.10				.29			1.77		.17	.20	.19		.07			.20			.13				.45	1.23	.08	5.72
Munfordville[2]..... G.				.14	1.25					.23			1.27	.11	T.	.10		.38				T.		.28			T.		2.66	1.56	.10	7.51
St. John..... S.				.54	.89					.18	T.		1.02		T.	.40	T.	.33	.04			.11	.03	.03		T.			2.05	.73		6.35
Salvisa, Lock No 6[2]..... K.				.46	.92	.07				.08			1.35	.17		.17		.32	T.					.15					1.25	1.55	.16	6.64
Shelbyville..... S.				.52	.39					.21			.73	T.		.31		.18				T.	.12	.02	T.				1.38	1.05	.03	4.94
Shepherdsville..... K.				.47	.69					.13			1.35			.17		.33				.16	.06	.05		T.	T.		1.31	.90		6.42
Smith's Grove..... G.				.23	1.24					.11		.02	1.41		T.	.12	.53	.17				.07	.08	.04		T.	T.		2.64	.57		7.23
Stearns..... C.				.07	1.03					.14		.17	1.86	.02		.19	.02	.21	.01				.02	.58	T.	.01		.20	.98	.01	5.52
Taylorsville..... O.																																
Tyrone, Lock No. 5[2]..... K.				.05	.90	.04				.15			1.02	.15	T.	.12		.30	.05			.05			.03				1.10	1.73	.20	5.89
Williamstown..... L.				.71									1.04						.27					.05					.95	1.30		4.32
Woodbury, Lock No. 4[2]..... G.				.01	1.08					.22			1.30	.06		.16		.32	.03			.04		.11					1.09	1.68	.08	6.18
Eastern Division																																
Aunville[2]..... C.				.07	.62	T.				.23			1.20	.25		.18		.37	.05			.14		.12			.03		1.02	1.34	.14	5.76
Ashland[2]..... O.					.32	.02				.03			.22	.52		.03	T.	.22	.04		.01	.09		.02	.01			T.		.23	1.52	.11	3.39
Berea..... K.				.25	.61					.17			1.60			.18		.32					T.	.12			T.	T.	1.73	.63	.04	5.65
College Hill, Lock No. 11[2]..... K.				.19	.56	T.				.05			1.00	.30		.10		.37	.07			.08		.04	T.	T.	T.		1.20	1.83	.05	5.82
Cumberland..... C.																																
Cynthiana[2]..... L.				T.	.76					.10		.04		1.13				.32						.10					.68	1.27	T.	4.10
Falmouth[3]..... L.				T.	1.22	.05				.08			.45	.30	T.	T.		.26	.03	T.				.06	.03		T.		.60	1.46	.13	4.67
Farmers[2]..... L.					.32	.33					.05			.98			.06	.30	.07					.09	.04		.07		1.82	.62	.14	4.89
Flemingsburg[2]..... L.					.64								.25	.85				.34					.08		.07				.63	1.15		4.01
Ford, Lock No. 10[2]..... K.				.01	1.04	.05							.75	.31	.15	.09		.34	.03			.02		.06	T.		.01		1.17	1.82	.28	6.13
Grayson[2]..... O.					.30								.08					.30											.90	1.20		2.78
Greenup, Dam 30[2]..... O.					.61	.09				.06			.15	.60		.03	T.	.22	.06		.03	.06		.02	.02				.20	1.45	.11	3.71
Hazard[3]..... K.					.62	.10						.10	1.04	.10				.42	.10	.06	.15			.48				.15		.80	.20	4.31
Heidelberg, Lock No. 14[2]..... K.				.18	.40	.06				.10			1.11	.24		.11		.28	.04			.14		.04	.01		.01		.50	1.79	.13	5.20
Jackson[3]..... K.				.12	.42	.05				.48			1.23	.26		.15		.31	T.	.05		.22		.05					1.40	.45	.28	5.47
Jenkins[2]..... B.				.32	.38					.05			.59	.03		.12		.22	.13					.10	.03					.91	.12	3.00
Louisa[2]..... B.				.05	.45					.10			.50	.55		.08		.38						.15					.80	1.70	.12	4.88
Maysville, Dam 33[2]..... O.				T.	.82	.03				.10			.45	.43		.07	T.	.21	.09	T.	T.	.01		.06	.01	T.	T.		.36	1.39	.10	4.13
Middlesboro..... C.																																
Mount Sterling..... L.																																
Oneida[2]..... K.																																
Oneonta Dam 35[2]..... O.				T.	.71	.11				.04			.32	.28		.05		.18	.08	.01	T.			.05	T.	T.	T.		.48	1.41	.06	3.73
Paintsville[2]..... B.																																
Pikeville..... B.				.12	.48	T.				.09		T.	.80			.17		.37	T.	T.		.22		.06	.06	T.	T.		.50	.25	T.	3.12
Pippapass..... K.				.08	.45					.14			.72			.10		.50	T.			.82		T.					.58	.35		3.24
Quicksand[3]..... K.				.17	.55		.03		.47			1.30		.12		.13	.30					.37		.41					.96	.85	.32	5.88
Ravenna, Lock No. 12[2]..... K.			T.	.27	.28	.11				.13			.54	.28		.24	T.	.25	.07			.19		.05	T.		T.		.66	.83	.15	4.05
Richmond..... K.			.10	.70	.10				.10			1.00	.40	.10			.50	.10				.15							1.25	1.70	.15	5.85
Valley View, Lock No. 9[2]..... K.					1.39					.12			1.01	.24		.11		.37	.04			.03		.02	T.		T.		1.20	1.40	.16	6.15
Vanceburg, Dam No. 32[2]..... O.					.25	.45				.13			.18	.46		.02		.25	.14		.03	.03		.07	.01					1.55	.21	3.71
Williamsburg[3]..... C.					.11	.78				.04	.05	.02	1.37	.04		.24		.21	.08									.07	.29	1.21	.23	4.74
Willow, Lock No. 13[2]..... K.					.25	.45				.08			1.35	.29		.15		.38				.27		.04			T.		1.05	1.73	.16	6.19
Winchester..... K.			T.	.36	.60					.10			1.07			.09	.01	.85	.02			.04	.02	.02	.01	.01			2.07	.99	.01	5.86

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3]Precipitation measured with recording gage. [4]Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for January, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	58	61	69	66	66	59	68	68	69	61	46	40	35	38	52	40	42	39	41	58	62	58	30	38	..	..	..	45	52	58	39	c51.7
	Minimum	26	37	40	55	48	29	30	30	40	41	28	32	32	32	32	31	25	27	19	31	20	28	19	30	..	..	..	26	42	30	24	c31.9
Calhoun	Maximum	58	62	62	61	58	59	62	62	70	61	48	42	38	38	55	42	42	41	58	65	42	30	39	40	41	48	44	49	55	38	49.5
	Minimum	23	38	50	49	57	25	26	27	35	29	26	30	31	30	29	30	23	26	18	26	26	26	12	28	24	29	20	28	30	29	24	29.3
Earlington	Maximum	58	62	68	66	63	63	63	61	70	64	49	47	40	39	52	44	42	39	44	58	60	60	32	39	40	42	42	48	49	56	41	51.5
	Minimum	34	38	49	56	49	30	30	32	61	47	30	35	32	30	33	31	25	31	21	28	33	28	20	30	39	34	21	31	40	31	25	33.8
Greenville	Maximum	68	62	70	65	61	64	65	67	71	66	47	45	41	49	62	40	41	36	44	59	59	58	31	38	42	42	44	45	50	48	40	52.0
	Minimum	29	34	22	58	47	28	32	30	38	45	27	32	30	29	29	22	27	18	27	27	26	17	27	21	29	17	29	40	30	22	29	29.5
Henderson	Maximum	57	68	66	58	58	62	64	66	65	59	47	38	37	36	46	40	40	36	39	58	60	57	29	39	37	40	43	44	47	54	39	49.3
	Minimum	31	38	45	55	46	33	35	32	44	40	28	30	37	31	32	32	27	23	19	30	33	25	16	28	24	31	20	29	39	31	21	31.7
Hopkinsville	Maximum	60	68	70	66	55	63	61	68	74	55	48	40	38	48	54	40	42	47	49	62	62	40	32	40	44	45	44	46	58	60	45	51.4
	Minimum	24	27	34	47	42	26	29	30	42	47	30	32	31	29	32	31	26	32	25	32	30	30	21	28	25	32	17	28	33	37	26	30.7
Lovelaceville	Maximum	52	63	67	58	58	62	64	67	64	61	52	48	40	40	46	45	38	40	48	61	60	57	36	41	45	45	45	45	45	40	37	50.6
	Minimum	27	34	44	54	50	25	28	30	47	47	30	36	32	28	30	32	27	32	22	29	38	29	20	31	24	31	20	27	43	32	24	32.0
Mayfield	Maximum	58	63	69	63	58	61	65	67	67	64	57	48	36	43	46	45	39	42	50	62	61	58	33	42	45	46	41	47	52	56	39	52.5
	Minimum	28	33	43	54	36	31	34	35	48	44	33	34	31	26	33	30	25	32	24	34	39	28	21	29	24	30	21	31	40	31	24	32.8
Murray	Maximum	54	62	67	63	58	63	64	67	68	62	45	45	34	42	48	42	40	41	49	60	61	60	33	40	40	44	44	47	51	55	40	51.3
	Minimum	31	37	44	54	49	36	35	37	45	48	35	34	33	29	35	32	27	33	25	38	44	33	32	32	26	32	25	30	43	32	26	35.2
Owensboro	Maximum	54	60	67	67	54	58	61	63	69	51	47	39	35	40	49	34	42	40	37	56	58	55	34	36	39	40	40	44	44	42	40	47.6
	Minimum	26	30	30	47	32	30	31	30	41	45	26	33	30	30	30	30	27	30	21	29	32	24	18	24	24	28	26	27	37	27	27	30.2
Paducah	Maximum	60	64	70	61	54	63	65	69	67	58	48	40	36	41	46	33	40	36	48	62	60	56	33	42	45	44	46	46	52	56	..	e49.9
	Minimum	20	28	36	48	50	31	32	32	32	48	32	32	32	28	32	32	28	28	26	26	38	30	23	24	28	28	25	27	36	36	26	31.4
Paducah (near)	Maximum	50	63	70	63	58	63	65	68	67	62	50	45	38	40	47	44	39	40	48	61	60	57	31	44	45	49	..	..	..	38	40	f52.1
	Minimum	31	36	46	54	47	29	34	31	51	46	30	34	32	26	34	31	28	31	22	34	40	29	20	31	34	28	20	..	..	32	24	f33.2
Princeton	Maximum	57	64	68	62	57	63	64	67	71	62	48	47	40	41	49	44	40	40	48	59	62	58	31	39	44	42	45	45	50	53	43	51.8
	Minimum	25	33	46	55	46	28	29	32	47	32	32	30	33	31	27	30	28	28	23	28	39	28	20	30	25	21	20	28	41	32	25	32.2
Russellville§§	Maximum	56	54	64	60	54	58	61	61	69	53	42	37	35	38	50	34	38	34	44	55	37	33	34	33	34	34	38	46	54	41	42	45.9
	Minimum	21	29	35	45	52	31	31	30	33	46	29	31	31	30	33	32	24	28	21	26	34	32	20	23	24	27	22	24	35	40	27	30.5
Central Division.																																	
Anchorage	Maximum	55	60	68	66	64	58	60	63	66	60	46	39	36	35	47	40	46	36	35	58	60	55	30	35	35	33	36	45	47	53	37	48.2
	Minimum	24	30	40	45	46	28	30	29	37	32	26	27	30	28	29	28	23	27	22	26	28	19	29	28	21	13	29	21	23	18	22	28.6
Bowling Green	Maximum	56	60	68	66	65	58	61	62	69	66	55	46	39	42	53	39	46	42	54	58	60	55	45	37	43	42	41	47	50	50	45	52.6
	Minimum	30	33	38	54	45	33	32	32	37	47	45	35	33	32	34	35	25	23	25	29	34	32	22	31	36	31	24	25	42	32	31	33.6
Danville	Maximum	56	61	68	65	66	59	62	63	66	61	48	47	43	38	49	45	43	43	37	53	60	57	34	37	38	37	36	46	49	54	36	50.2
	Minimum	30	40	45	49	49	32	30	34	36	45	26	30	31	27	29	33	21	28	22	29	32	28	14	28	21	23	22	18	39	31	29	30.7
Dix Dam	Maximum	56	61	68	63	64	61	62	64	66	60	46	40	35	43	44	46	46	37	54	60	51	34	37	35	38	37	47	49	55	49	55	49.7
	Minimum	32	38	46	47	52	34	30	32	33	52	31	31	33	30	34	30	23	23	23	30	36	31	15	30	22	25	24	21	40	33	31	32.0
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Eubank	Minimum	29	29	30	41	47	28	25	24	30	46	25	31	29	28	28	29	25	21	23	27	28	27	11	18	19	28	18	20	28	26	25	27.0
	Maximum	56	60	68	63	61	60	62	66	66	62	47	45	37	34	45	40	42	38	38	53	59	57	32	36	35	35	39	47	47	51	36	49.0
Frankfort	Minimum	23	37	42	59	52	31	25	28	29	46	27	28	28	23	28	33	24	30	25	24	27	29	13	28	20	22	21	22	41	33	30	29.4
Glasgow	Maximum	54	60	67	67	65	58	62	65	68	51	48	41	48	53	48	44	42	39	56	57	58	34	36	40	39	41	45	50	48	54	34	51.2
	Minimum	29	36	46	55	53	27	26	28	33	49	25	55	32	31	35	33	21	29	19	30	27	30	19	28	21	25	20	21	39	30	29	31.1
Greensburg	Maximum	56	60	67	65	65	59	62	61	67	65	48	47	40	41	51	50	47	42	39	57	60	57	36	37	37	39	40	49	51	55	35	51.1
	Minimum	20	33	38	51	50	27	28	26	28	45	27	31	30	28	29	33	20	26	16	24	26	27	15	26	20	24	17	17	33	30	28	28.3
Irvington	Maximum	55	59	66	63	64	58	60	59	66	60	48	44	37	38	49	41	42	40	37	55	59	56	30	36	36	38	39	44	49	55	36	49.0
	Minimum	32	36	45	58	42	36	37	39	41	41	29	32	32	30	33	32	28	27	22	34	34	26	19	30	23	30	23	29	40	32	30	32.9
Leitchfield	Maximum	56	60	68	64	65	60	62	64	67	64	46	43	37	37	51	43	42	37	40	56	60	64	29	38	39	38	40	44	48	54	34	49.7
	Minimum	19	35	42	54	48	32	34	33	42	48	29	32	32	30	34	32	24	28	19	31	55	26	18	28	21	30	19	26	40	30	28	32.1
Lexington	Maximum	55	58	67	62	61	58	60	64	64	58	45	38	34	33	41	35	41	37	35	48	59	53	34	35	32	35	35	44	50	52	34	46.5
	Minimum	30	37	40	50	42	34	34	34	40	38	28	30	21	22	30	32	25	25	24	29	31	19	15	27	19	23	23	23	38	28	28	29.6
Louisville	Maximum	54	58	66	63	54	57	60	68	67	60	47	38	33	35	37	37	41	36	35	53	58	50	35	36	34	38	37	46	52	56	35	48.0
	Minimum	34	41	17	52	48	40	41	39	42	39	35	32	29	28	32	33	31	26	24	32	37	22	19	26	22	27	28	29	41	30	30	33.3
Do. Bowman Field	Maximum	55	59	67	64	59	59	60	65	66	60	47	38	33	36	49	37	41	35	35	53	59	49	34	36	34	39	37	45	51	55	36	48.2
	Minimum	32	38	45	52	48	35	37	33	40	35	31	31	32	29	31	34	29	28	23	32	35	26	18	27	23	27	23	26	42	31	30	32.8
Mammoth Cave	Maximum	57	61	70	65	64	61	62	65	65	61	47	45	36	41	51	46	48	41	40	56	60	56	32	37	39	38	40	46	50	60	35	50.8
	Minimum	26	35	44	54	47	28	27	28	35	40	25	31	30	29	34	31	22	24	14	30	29	24	13	29	21	29	20	28	38	28	26	29.6
St. John	Maximum	55	59	67	65	64	67	62	63	67	66	45	36	37	50	49	42	42	40	57	59	56	30	35	37	41	40	45	46	51	54	34	50.1
	Minimum	26	34	44	51	39	26	29	28	31	43	25	28	31	28	29	30	22	26	17	28	26	26	16	24	20	27	17	23	39	30	27	28.7
Shelbyville	Maximum	52	56	64	60	60	57	59	61	62	58	45	42	36	35	46	41	40	38	36	52	55	48	28	35	35	36	36	44	45	51	37	46.6
	Minimum	24	32	36	45	43	31	29	30	45	38	26	27	29	23	27	31	23	27	22	26	29	28	12	25	17	22	19	21	38	31	27	28.3
Smith's Grove	Maximum	56	62	68	65	63	64	62	65	69	64	47	43	36	43	51	41	42	42	42	58	60	57	36	44	41	40	41	42	46	50	36	48.3
	Minimum	29	33	41	50	47	31	30	31	36	41	30	34	32	31	34	31	25	27	21	29	31	24	20	32	25	32	20	28	40	30	29	31.6
Stearns	Maximum	58	61	66	68	65	58	63	62	64	62	50	44	48	..	..	..	..	..	42	58	52	58	56	34	37	34	36	36	44	53	55	32	g50.2
	Minimum	29	35	42	51	49	33	30	35	37	50	30	32	32	..	..	..	..	..	30	20	30	35	28	18	31	23	30	23	21	38	30	28	g32.2
Taylorsville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	55	59	69	64	65	58	60	61	65	65	49	48	45	34	43	42	40	40	36	48	54	60	45	37	36	38	36	38	45	55	45	49.5
	Minimum	30	36	43	49	50	34	36	35	38	45	30	29	30	20	26	33	27	30	24	24	30	25	11	26	18	20	20	26	20	34	27	29.9
Eastern Division.																																	
Annville	Maximum	48	55	61	68	65	64	65	61	62	65	63	48	40	42	39	48	37	45	40	38	51	58	35	38	36	36	37	36	45	55	50	49.4
	Minimum	22	26	30	43	52	28	29	26	26	27	26	27	33	28	26	30	26	20	25	26	25	29	18	15	22	21	23	15	26	41	30	26.8
Ashland	Maximum	52	59	62	58	69	60	62	56	63	55	46	39	39	42	41	43	41	36	43	52	52	52	32	37	36	34	32	40	50	47	40	47.7
	Minimum	25	38	34	39	48	32	27	28	30	45	30	28	31	27	22	33	27	33	27	22	33	28	12	30	24	18	22	26	31	39	27	29.5
Berea	Maximum	45	59	65	67	66	58	60	62	64	62	49	44	42	36	49	45	45	41	36	52	59	57	34	38	37	37	34	45	49	55	36	49.3
	Minimum	31	36	45	53	47	37	34	37	41	48	29	30	29	28	30	32	24	29	28	28	35	28	18	24	21	24	22	22	35	32	24	31.5
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	57	59	61	65	65	55	57	60	61	61	54	45	44	35	44	41	39	39	34	48	55	55	31	34	35	35	33	44	46	47	37	47.7
	Minimum	27	42	30	44	52	33	23	26	28	58	27	28	32	26	25	32	25	33	26	19	27	35	11	29	23	15	23	11	35	35	22	29.2
Heidelberg	Maximum	55	61	68	67	66	60	61	64	66	64	54	47	44	39	46	43	47	42	39	58	60	56	32	38	35	38	37	46	48	50	35	50.3
	Minimum	28	25	29	36	57	30	23	24	29	45	29	33	33	30	28	35	25	36	28	26	28	37	14	30	25	20	21	25	39	38	31	29.6
Maysville	Maximum	55	58	68	59	64	57	59	58	65	60	48	40	34	32	40	37	42	37	34	53	52	54	33	32	30	31	31	45	46	53	36	47.0
	Minimum	26	39	35	41	52	36	26	29	30	49	28	28	32	25	27	33	28	33	27	21	30	30	11	29	23	18	20	17	35	35	28	29.7
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	56	62	64	71	67	62	62	60	61	70	57	45	50	45	49	42	49	45	37	50	58	59	35	44	37	41	35	47	47	51	41	51.8
	Minimum	24	28	29	38	52	34	27	29	30	41	34	35	34	30	25	38	28	37	29	26	33	31	17	34	25	20	26	17	35	40	32	30.7
Pippapass	Maximum	63	57	68	65	63	62	60	61	63	60	56	45	43	43	49	45	45	42	46	52	59	59	42	44	39	48	40	50	50	52	46	52.0
	Minimum	26	36	35	49	51	33	26	26	29	48	31	34	33	30	24	31	23	30	24	27	25	29	21	15	32	25	18	21	25	30	28	30.3
Quicksand	Maximum	56	63	71	69	60	63	65	69	61	65	51	44	37	..	44	47	49	45	39	52	60	60	34	43	36	41	37	48	48	50	37	h51.5
	Minimum	21	27	28	34	43	29	22	25	25	40	28	31	25	..	26	33	23	32	25	28	26	28	13	29	20	16	21	13	29	31	28	h29.6
Richmond	Maximum	55	60	66	65	64	58	60	65	65	60	45	42	38	38	40	38	48	37	37	50	56	55	35	36	36	33	36	36	43	47	50	47.5
	Minimum	32	38	45	54	53	37	40	40	40	55	32	30	33	28	30	30	28	33	25	29	35	32	18	29	20	25	23	23	37	43	28	33.7
Williamsburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	22	28	31	48	52	28	25	28	29	48	31	31	33	27	28	28	24	28	20	31	37	27	12	27	25	22	22	20	31	38	30	28.6
Winchester	Maximum	54	56	65	64	63	56	59	63	63	59	44	41	36	33	42	41	42	39	35	48	58	55	30	36	33	36	34	44	48	52	34	47.2
	Minimum	32	34	42	50	44	35	32	36	27	44	30	30	30	28	29	32	28	29	25	28	33	23	14	28	20	23	23	21	37	31	28	30.2

§§ Instruments are read in the morning. The maximum temperature then read is charged to the preceding day, on which it almost always occurs
a, b, c, etc. indicate respectively 1, 2, 3, etc., days missing from record.

W. B. O. Louisville 3-18-39—1100

51.05
M E

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., FEBRUARY, 1939 No. 2

GENERAL SUMMARY.

The temperature for the month averaged somewhat above normal, but the weather was very changeable and decidedly unfavorable for outdoor work. Temperatures fluctuated widely in short periods from far above to considerably below the seasonal average. The heavy to excessive precipitation caused extensive flooding of bottom lands, with damage to prospective crops. Standing water on flat upland grain fields, often changed to sheets of ice in the cold intervals, caused drowning and smothering of plants. These conditions continued in the western counties at the end of the month. The frequent freezing and thawing of the surface soil also damaged grains and clover by lifting the plants out of the ground. In the periods of high temperature there was some growth. As a rule, however, the unfavorable weather resulted in slow deterioration. The snowfall offered some protection north and west. Because of the differing reaction of the various soils to the unfavorable weather, irregularity in the conditon of grains increased during the month. While temperatures at times rose very high for midwinter, these warm spells did not last long enough to affect fruit buds.

Progress in winter plowing had been good up to this time, but practically no work of that kind could be done during the month. The heavy rains had a tendency to pack the land already broken, especially where the water stood on its surface for several days. Very little could be accomplished in sowing tobacco plantbeds or in preparation for early gardening. In the last week, when these activities usually become important, the weather was exceptionally unfavorable. The frequent rainy spells kept tobacco in condition for stripping most of the time, so that the work could be readily completed. Extremely bad dirt roads hindered deliveries.

TEMPERATURE.

Quite warm and relatively cold weather occurred in periods of one to six days in length. In the warm intervals daily temperatures ranged from 5° to 25° above normal, while on the cold days they were usually 3° to 20° below the average. The warmest days were the 9-10th and 19th, when maximum temperatures ranged from 65° to 75° at many stations. The coldest weather occurred in the periods 4-5th, 16th, and 22-23d, when minimum temperatures ranged from 5° to 10° in the northeastern counties and −5° to 10° in western districts. Extremes for the State were 79° at Pikeville on the 19th and −3° at Paducah on the 4th.

PRECIPITATION.

The average precipitation was more than twice the normal amount for this month and the second highest during the period of record. It was heaviest in the section from the Purchase eastward over the Basin of the Green River and the upper basins of the Kentucky and Cumberland, where it ranged between 8.00 and 12.0 inches. From this section northward most districts received from 6.0 to 8.0 inches. Stations in the three extreme northern counties reported somewhat less than 5.0 inches. Heavy precipitation occurred in the periods 2d-4th, 10-11th, 14-15th, and 25-24th. It was light to moderate on the 6-7th and 18th-22d. There were but few days without measurable amounts. As a rule the heaviest precipitation occurred on the 2d and 3d. The range for the State was between 4.47 inches at Grant and 11.57 inches at Williamsburg. The total snowfall varied between 4.0 and 12.0 inches in the northern and western counties. It ranged from a trace to 1.0 inch in the southeastern districts. Most of it occurred on the 3d, although considerable snow also fell on the 21st. Thunderstorms were reported from western districts on the 9th, 10th, 27th and 28th.

MISCELLANEOUS.

Feb. 9.—A residence was struck by lightning and some other buildings were damaged by wind during a storm in southern Carlisle County.

Feb. 27.—A housewife was critically injured when lightning struck her home near Wickliffe.

Rivers.—Floods occurred in all streams of the State in the first decade. Some crests were as follows: In the Ohio, at Cincinnati, 58.3 feet, 7th; Madison, 50.2 feet, 8th; Louisville, 35.1 feet upper gage, 62.0 feet lower gage, 9th; Evansville, 44.8 feet, 12th; Cairo, 50.8 feet 23d; Kentucky River, Frankfort, 35.6 feet 7th; Green River, Munfordville, 34.5 feet, 6th; Brownsville, 35.8 feet, 5th; Woodbury, 41.7 feet, 7th; Cumberland, Burnside, 65.0 feet, 4th. The Ohio remained above flood stage from Evansville to Cairo at the end of the month. Damages were heavy in the mountain counties, otherwise they occurred mainly to highways and prospective crops in bottom fields.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo .....Ill.	30.09	30.59	11	29.45	9	10.9	34	sw.	28	81	70	71	49
Cincinnati .....Ohio	30.10	30.63	16	29.50	19	9.6	35	sw.	28	83	65	67	46
Evansville..... Ind.	30.10	30.60	11	29.50	9	10.9	37	sw.	28	80	68	70	44
Louisville .....Ky.	30.10	30.59	11	29.52	19	11.9	41	s.	28	80	64	67	47

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	34.1	74	3	1.91	....	..	..	..	..
1890	45.6	86	16	7.98	....	..	..	..	..
1891	42.2	76	0	4.72	....	..	..	..	..
1892	42.2	70	11	2.92	....	..	..	..	..
1893	37.7	70	3	4.40	....	..	..	..	..
1894	34.6	74	2	4.66	....	..	..	..	..
1895	25.9	80	−18	0.66	....	5	12	8	8
1896	37.4	81	− 2	3.06	....	9	9	8	12
1897	39.8	76	18	5.75	1.2	11	8	7	13
1898	37.4	77	− 3	1.61	2.6	6	10	8	10
1899	26.2	71	−30	3.97	10.8	11	9	6	13
1900	32.5	76	− 9	4.68	7.0	12	7	8	13
1901	32.4	71	1	1.27	2.1	6	10	7	11
1902	27.9	69	− 3	1.30	2.8	7	10	6	12
1903	37.5	75	−16	7.28	6.1	9	11	4	13
1904	35.2	75	− 2	2.32	2.6	7	11	8	10
1905	27.9	67	−16	2.44	3.9	9	10	5	13
1906	34.7	75	−12	1.81	6.9	7	16	5	7
1907	35.7	73	−10	3.06	7.6	9	11	5	12
1908	35.6	70	2	5.56	3.1	13	9	5	15
1909	42.4	75	− 8	8.17	1.0	11	12	4	12
1910	32.9	66	−12	4.70	11.9	10	12	4	12
1911	42.0	80	11	3.25	0.4	9	10	4	14
1912	29.7	68	−14	3.08	3.3	7	10	5	14
1913	34.8	77	− 2	2.94	1.4	7	14	5	9
1914	32.2	69	− 2	4.14	7.2	11	10	5	13
1915	41.9	75	13	1.74	0.2	8	9	6	13
1916	35.0	72	− 4	2.99	5.0	9	11	6	12
1917	34.8	80	− 9	3.51	4.7	8	9	8	11
1918	39.3	83	− 8	2.04	0.6	7	11	7	10
1919	38.6	69	12	1.79	1.1	9	11	5	12
1920	35.7	71	0	2.27	3.8	9	8	5	16
1921	41.3	77	11	3.20	8.9	19	8	5	15
1922	41.3	76	4	3.58	0.8	10	8	6	14
1923	34.6	74	− 4	4.67	1.6	10	10	5	13
1924	36.0	71	9	2.56	1.9	9	9	5	15
1925	44.0	76	8	3.91	0.6	9	12	6	10
1926	41.1	70	4	3.14	4.4	10	8	7	13
1927	45.6	81	15	2.65	4.2	11	10	6	12
1928	38.1	72	5	2.48	1.0	10	11	4	14
1929	31.2	68	−14	3.68	12.6	9	10	7	11
1930	45.1	80	2	3.49	0.5	8	11	7	10
1931	41.6	76	12	3.20	0.3	8	12	4	12
1932	46.7	82	15	3.36	T.	8	14	5	10
1933	37.5	75	− 9	4.25	4.4	12	13	5	10
1934	31.8	72	−19	2.20	8.0	7	12	7	9
1935	40.1	73	5	2.35	0.6	8	9	7	12
1936	32.1	79	−14	1.95	5.5	9	12	5	13
1937	38.3	78	11	2.40	4.2	10	8	8	12
1938	45.7	77	8	2.39	0.6	11	7	6	15
1939	40.3	79	− 5	8.03	4.0	14	9	5	14
Period	37.1	86	−30	3.44	3.7	9	10	6	12

†51-year averages.

Climatological Data for February, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	27	39.4	+ 3.2	75	19	7	4	32	8.38	+5.20	1.71	2.1	14	9	3	16	nw.	Eldred G. Young.
Calhoun	McLean	437	35	40.4	+ 1.3	78	19	1	4	30	8.90	+5.58	2.10	8.0	13	11	1	16	.....	R. C. Bennett.
Earlington	Hopkins	420	45	40.0	+ 2.2	75	19	2	4	40	8.79	+5.26	1.86	7.5	12	10	5	18	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	7.75	+5.17	1.32	12.5	14	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	481	.....	.....	.....	.....	.....	.....	.....	.....	8.30	.....	1.59	.....	13	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	39.0	− 1.0	75	19	4	23	38	8.32	+4.91	1.45	6.5	14	9	14	5	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	9.71	.....	2.25	1.0	15	7	3	18	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	37.2	.....	70	19	0	4	44	8.91	+6.25	1.68	9.0	15	9	10	9	w.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	41.5	+ 2.3	79	19	8	28	37	8.95	+5.33	1.70	2.0	11	12	8	8	n.	W. K. Morris.
Lovelaceville	Ballard	479	10	39.0	− 1.3	68	3†	0	4	38	8.95	+5.23	1.60	12.0	11	10	4	14	s.	Blaine Malone.
Mayfield	Graves	364	30	40.0	0.0	72	19	8	4	41	7.87	+4.49	1.08	7.0	13	7	9	12	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	41.2	+ 0.6	71	9†	10	4	35	7.82	+4.52	1.44	6.0	11	4	3	21	s.	Pat W. Weir.
Owensboro	Daviess	420	42	37.2	+ 0.7	73	19	0	4	25	6.47	+3.62	1.28	8.0	14	10	0	18	nw	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	7.20	+4.58	1.28	8.3	14	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	37.4	+ 1.4	72a	20	16	4†	38a	8.62	+5.31	1.68	9.0	15	10	3	15	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	39.6	− 2.0	72	19	− 5	4	47	8.85	+5.19	1.85	11.5	11	14	1	13	.....	Joe Lagore.
Princeton	Caldwell	529	32	39.4	+ 1.6	74	19	4	4	37	9.06	+5.67	2.12	8.0	14	6	7	15	s.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	8.50	+5.28	1.44	6.0	14	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	38.0	− 0.3	78	19	8	23	37	.....	.....	.....	.....	.....	11	2	15	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	5.64	+3.32	1.00	8.0	14	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	852	11	.....	.....	.....	.....	.....	.....	.....	7.74	+5.08	1.20	6.5	12	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	38.2	+ 3.7	76	19	4	4	39	5.47	+2.61	0.92	6.6	11	12	4	12	se.	C. E. Barret.
Bowling Green	Warren	500	43	43.2	+ 4.2	73	19	13	23	34	8.44	+4.82	1.50	1.3	13	9	7	12	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	9.06	+5.09	1.58	1.8	13	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	9.26	+5.46	2.51	T.	13	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	5.59	+2.99	1.15	5.3	11	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	4.69	+2.30	1.03	4.0	13	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	42.0	.....	76	19	9	23	36	8.64	+5.51	2.18	1.0	11	11	2	15	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	41.6	+ 1.3	75	19	12	23	38	8.14	+5.17	1.97	.....	12	7	6	15	s.	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	9.95	.....	2.76	T.	12	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	4	23	.....	10.30	+6.91	2.39	.....	11	6	5	17	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	39.7	+ 2.9	76	19	10	4	36	7.10	+3.96	1.59	2.7	12	9	4	15	w.	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	6.61	+3.57	1.45	6.5	11	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	44.5	+ 2.9	74d	19	18	4	36	9.04	+5.51	1.89	.....	13	.....	.....	.....	sw.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	4.47	+2.22	1.10	.....	13	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	41.9	+ 5.6	75	19	9	23	39	7.97	+1.36	1.72	0.2	13	2	4	22	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	8.30	+5.22	1.88	2.0	13	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	39.8	+ 3.1	73	19	7	4	42	7.45	+4.31	1.62	3.5	12	9	3	16	sw.	W. J. Piggot.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	10.48	+7.52	2.70	.....	13	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	40.1	+ 3.5	74	19	8	23	38	8.58	+5.20	1.52	3.0	13	7	9	12	sw.	H. H. Willis.
Lexington	Fayette	989	55	39.8	+ 3.9	75	19	11	23	40	8.48	+4.86	2.47	0.1	17	6	8	14	.....	U. S. Weather Bureau.
Litchfickman, Lock 8¶	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	9.04	+5.68	2.20	.....	11	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	7.62	+4.75	1.51	8.0	12	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	38.2	+ 1.0	74	19	14	23	47	6.95	+3.40	1.53	6.4	16	7	6	15	s.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	1	38.2	..	76	19	9	4	32	7.13	.....	1.50	3.4	13	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	40.6	.....	74	19	10	22	40	9.59	.....	1.85	1.1	17	7	2	19	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	10.29	.....	3.00	.....	12	9	8	11	.....	E. O. Cooper.
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	9.59	+5.99	1.86	.....	13	.....	.....	.....	.....	Mrs. M. W. Price.
St. Joni	Hardin	777	43	40.2	+ 4.8	74	19	9	22	39	7.72	+4.10	1.82	2.0	15	7	9	12	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	8.16	+5.12	1.82	.....	10	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	37.4	+ 3.3	73	19	4	4	34	6.65	+2.29	1.46	6.5	17	7	0	21	nw.	Willa S. Ratta,
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	7.27	.....	1.31	4.0	13	6	11	11	w.	A. McLeod.
Smith's Grove	Warren	607	1	42.4	.....	74	19	11	23	34	8.86	.....	1.38	0.4	15	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	45.2	.....	72	19	10	23	33	11.82	.....	4.86	T.	17	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Thad. Cheatham, Sr.
Tyrone, Lock 5¶	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	7.97	+4.87	1.44	4.4	11	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	40.6	+ 6.8	75	19†	5	23	39	6.48	+3.77	1.59	6.0	10	13	2	13	w.	Mrs. Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	8.22	+4.71	1.78	2.8	14	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	39.6	.....	75	20	10	23	39	10.21	.....	3.54	1.3	16	6	10	12	sw.	W. A. Worthington.
Ashland	Boyd	534	22	40.8	+ 3.1	76	19	4	23	34	7.71	+4.63	2.40	2.0	13	7	6	15	s.	Lockmaster.
Berea	Madison	1070	36	.....	..	.....	.....	5	23	.....	7.18	+3.93	1.93	.....	14	6	4	18	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	8.46	+5.53	2.38	1.0	12	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	5.76	+2.70	1.03	4.0	11	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	6.22	+3.23	1.46	.....	13	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	32	41.0	+ 4.1	75	20	10	22	38	8.53	+5.48	2.45	3.8	12	6	4	18	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	7.46	+4.37	1.43	.....	12	.....	.....	.....	.....	C. A. Glascock.
Ford, Lock 10¶	Clark	693	23	.....	.....	.....	.....	.....	.....	.....	8.81	+5.84	2.24	0.1	11	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	6.64	.....	2.00	4.0	10	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	7.62	+4.79	1.68	2.0	13	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	8.87	+5.41	3.50	.....	12	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	13	43.4	.....	76	19	14	23	45	10.30	+7.24	3.24	1.0	12	6	5	17	sw	Lockmaster.
Jackson	Breathitt	776	13	.....	.....	.....	.....	.....	.....	.....	9.58	.....	3.50	2.0	16	.....	.....	.....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	6.55	+3.73	1.52	2.0	12	.....	.....	.....	.....	R. J. Howard,
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	7.23	+4.47	2.73	.....	11	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	41	39.3	+ 4.2	76	19	3	23	37	6.29	+3.19	1.43	5.3	13	4	11	13	sw.	Lockmaster.
Middlesboro	Bell	1128	40	.....	.....	.....	.....	.....	.....	.....	9.43	+5.41	3.20	.....	17	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montromery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35¶	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	4.76	+2.13	1.12	9.0	14	..	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.5	.....	.....	.....	.....	.....	A. L. Douta.
Pikeville	Pike	636	3	45.6	.....	79	19	17	23	39	7.26	+4.12	3.23	T.	15	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	.....	.....	.....	.....	14	23	.....	6.29	.....	2.95	.....	8	18	3	7	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	.....	.....	.....	.....	11	23	.....	10.05	+6.75	4.60	1.0	11	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	5.34	+1.27	1.65	.....	11	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	41.6	+ 4.8	77	19	11	23	33	9.55	+6.37	2.60	.....	11	10	0	18	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	7.94	+4.57	2.16	0.5	10	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	5.23	+3.40	1.44	4.0	13	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	.....	.....	.....	.....	10	22	.....	11.87	+8.36	4.18	0.5	13	13	2	13	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	11.45	+8.57	3.75	.....	12	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	...	40.6	.....	74	19	11	23	32	8.74	.....	2.23	1.0	16	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	40.3	+ 3.2	79	19	− 5	4	47	8.03	+1.59	4.36	4.0	14	9	5	14	.....	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, *, †, °, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for February, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G	1.71		.88			.16			1.16	.87				.27	.84			.05	.12	.68	.12				.29	.50		.73				8.88
Calhoun G		2.10	.90			.17			.60	.71				.28	1.10			.04		.97	.04				.20	.80		.99				8.90
Farlington G		1.86	1.16			.23			.81	.73				.32	1.30			.19	.27	.75	.20							.98				8.79
Fords Ferry Dam 50[3] O		1.12	.95	.34		.14	.05		T.	1.32	T.				.94			T	.21	.62	.08	T.	.01		.05	.76		.87				7.75
Gilbertsville[4] T		1.59	.75	.05		.16			.86	.99					1.27				.33	.86	.11				.10	.60		1.08				8.30
Greenville G		1.45	.81			.30			1.22	.65				.15	.80			.05	.20	.85	.16				.16	.48		.85				8.12
Hartford G		2.25	.74			.14	.03			.69	1.14				.31	1.09			.08	.16	.86	.10				.19	.69		1.24				9.71
Henderson O		1.58	1.68			.10	.04		.95	.61					.31	.71			.10	.69	.16	.13				.46	.56		1.03				8.91
Hopkinsville G		1.04	1.70	.01		.10	.30		.75	1.10						1.07					1.10				T.	.95		.90				8.95
Lovelaceville M.	.55	1.50	1.50						1.10					1.80				.15	.95		.10			.10	.75		.85				8.85
Mayfield M.	T.	1.50	.40			.79			.56	.51				.20	1.08		T.	.09	.74	.20	.10	T.			.44	.26	T.	.96				7.87
Murray T		1.00	1.44		.15				1.05	.35					.83			.20	1.15		.05				1.00		.60					7.82
Owensboro O	T.	1.28	.60			.19	.10		.43	.46				.40	.52		T.	T.	.13	.70	.02				.08	.90		.66				6.47
Owensboro, Dam 46[3] O		.96	.60	.30		.09	.12			.84	.41				1.28				.15	.88	.05	.08	T		T	.98	T.	.76				7.20
Paducah[3] O		1.38	1.68			.15	.02		.05	.87	.01			T.	1.38		T.	T.	.24	.94	.09	T.	T.		.28	.70	.01	.82				8.62
Paducah (near)‡ O		1.85	1.65		.10				.40	.60				1.25				.23	.95		.10				1.06		.78					8.83
Princeton G	T.	2.12	1.15			.28			.68	.54				.22	1.22			.29	.36	.48	.25	T.			.40	.27	T.	.80				9.06
Kumsey, Lock No. 2[3] G		1.44	.89	.21		.12	.07			1.14	.18				1.41				.15	.82	.04	.12	T.			.93		.98				8.50
Russellville [3] K		.01	1.53				.65			1.15									.15	.14						.73		.45				
Uniontown, Dam 49[3] O		1.00	.43	.04		.10	.04			.78	.02				.80			T.	.12	.80	.03	T.	T.		.04	.70		.74				6.64
Central Division																																
Addison, Dam 45.[3] O		1.08	.71	.22			.13			1.03	.26				1.20			T.	.08	.84	T.	.07				.96	T.	1.16				7.74
Auchorage O			.65			.03			.91	.84				.36	.92				.46	.16					.12	.54		.48				5.47
Bowling Green G		1.60	.45	.05		.30			1.15	.77				.10	1.50				.40	.82		.20			.20			1.50				8.44
Brownsville, Lock No. 6[3] G		.72	1.58	.18		.10	.12			1.56	.65				1.57				.30	.75		.08				.85		.60				9.06
Burnside[3] C		.11	2.51	.35		.11	.23			.75	.35				1.91			.02	.10	.65	T.	.11				.73		1.33				9.26
Carrollton Lock No. 1[3] K		.70	.53	.09						1.13	.21				1.10					.68	.02	.04			.58			.58				5.59
Cold Spring, Dam 36[3] O		.26	.38	.13			.05			.55	.66				1.03	.05			T.	.59	T.	.06	T.	T.		.52	.02	.39				4.69
Danville[3] K		.41	2.18	.12		T.	.14			.66	.85				1.86	T.		T.		.67		.16	T.			.84		.75				8.64
Dix Dam, Burgin K	.60	1.97	.16			.13			.63	.72				1.72	.03				.62		.13				.78		.65				8.14
Eadsville [3] C		.20	2.76	.10		.11	.18			1.34	.43				1.83				.10	.91	T.					.78		1.21				9.95
Enbank C		.09	2.39	.15		.07				1.60	.30				2.20				.11	.94						1.10		1.35				10.30
Frankfort, Lock No. 4[3] K		.82	1.50	.12			.05			.70	.47				1.59			T.	T.	.55	.10	.16				.64		.41				7.10
Gest, Lock No. 3[3] K		.94	.80	.08			.25		.62	.90					1.45			T.	T.	.54	T.	.03				.70		.30				6.61
Glasgow G		.51	1.89	.08		.15	.14		1.25	.66					1.64				.26	.75	.06					.86	T.	.79				9.04
Grant, Dam 33[3] O		.30	.35	.18		T.	.05			.55	.85				1.10			.02	T.	.40	.06	.09		T.		.06		.46				4.47
Greensburg[3] G		.42	1.72	.15		.07	.12			1.17	.77				1.59				.25	.70	.08	.12						.81				7.97
High Bridge, Lock No. 7[3] K		.54	1.88	.25			.17			.75	.85				1.73	.02		T.	.04	.55		.10				.76		.66				8.80
Irvington K		1.62	.72			.04			.81	.88				.16	1.09			T.	T.	.12	.12	T.			.06	.97		.86				7.45
Lancaster[3] K	.84	2.70	.15		.02	.13			.90	.92				2.15				.02	.62		.18				1.10		1.25				10.48
Leitchfield [3] G		1.06	1.52	.32		.05	.12			1.36	.82				1.22				.20	.75		.15				.73		.78				8.58
Lexington ‡ K	T.	2.33	.91			.21			.48	.80				1.06	.55		.01	.01	.48	.01	.17	.04	T.		.33	.41	.32	.86				8.48
Little Hickman, Lock No. 8 [3]† K		.72	2.20	.17		T.	.15		.78	.75					1.80	T.		T.	T.	.72		.10	T.			.90	T.	.75				9.04
Lockport, Lock No. 2[3] K		1.20	1.20	.25	T.		.05			1.33	.39				1.51					.62	.05	.19				.61		.32				7.62
LOUISVILLE[1]‡ O	.19	1.47	.51			.04			.74	.89				1.05	.20		.02	.01	.42		.14				.47	.34	.18				6.95
Do. Bowman Field O		.86	.97	.32			.02			1.36	.36				1.34	T.		T.	T.	.48	.03	.14	T.		T.	.80	.01	.44				7.13
Mammoth Cave[3] G		.74	1.85	.09		.10	.15		.04	1.29	.55				1.70	.03				.86	.84	.01	.09			.90	.01	.76				9.50
Monticello [3] C		.18	3.00	.25			.23			.94	.28				.80	.20			1.50		1.30					.77		1.34				10.20
Mumfordville [3] G		.60	1.86	.25		.03	.18			1.18	.58				1.72				.50	.82		.15	T.			.82		.90				9.59
St. John S		1.82	1.06			.08	.06		.80	.68				.04	1.07	.01		T.	.05	.63	.08				.02	.67	T.	.68				7.72
Salvisa, Lock No 6 [3]† K		1.25	1.82	.10			.18			.80					1.88				T.	.75		.18				.75		.75				8.16
Shelbyville S		1.46	1.01			.05	.06		.66	.38				.11	.05	.03	.03		.01	.60	.16				.07	.59	.03	.39				6.69
Shepherdsville S		.81	1.31	.03		.10	T.		.72	.68				.19	1.17			T		.63	.15				.07	.72		.69				7.27
Smith's Grove		1.24	1.58			.33			.78	.87				.15	.94			.10	.26	.73	.06	.01	T.		.25	.68		.69				8.85
Stearns C		.55	3.86	T.		.38	.04		.50	.62	.22			.22	2.07		T.	.01	.10	.54	.03	.03			.12	.71		1.82				11.82
Taylorsville O	1.00		.08	1.10			.15			1.00	.40									.50		.01				.07		.40				
Tyrone, Lock No. 5 [3]† K		1.12	1.25	.18	T.	T.	.10		.80	.78					1.44			.05	T.	.62		.12	T.			.75		.76				7.97
Williamstown L		1.00	1.05						.62	.60					1.50					.60	.22	.02				.65		.22				6.48
Woodbury, Lock No. 4[3] G		.62	1.78	.12		.17	.08		.04	1.36	.26				1.20				.27	.82		.08				.82		.60				8.22
Eastern Division																																
Annville [3] C		.10	3.54	.19		.05	.16			.93	.53				1.70	.02			.40	.66		.04	.02			.80	.01	1.06				10.21
Ashland [3] O		.23	2.40	.81			.10			.53	.65				1.48	.13				.28		.15				.52	.02	.41				7.71
Berea K		.60		.02		.05	.05		.92	.75	.08			.07	1.93					.90	.14				.04	.78		.85				7.18
College Hill, Lock No. 11[3] K		.86	2.38	.10			.10			.98	.68				1.62				.03	.54		.15				.84		.68				8.46
Cumberland C																																
Cynthiana [3] L		.82	.50	.71			.11			.61	.27				1.03					.42		.11				.60		.58				5.76
Falmouth [3] L		.51	1.17	.22			.05			.87	.30				1.46	T.			.02	.55	.01	.18				.60	T.	.28				6.22
Farmers [3] L		.65	2.45	.05		.11			.66	.88					1.93		.04			.63	.20					.63		.50				8.58
Flemingsburg [3] K		.83	1.43	.58			.12			.87	.79				1.40				.01	.51	.21					.65		.36				7.46
Ford, Lock No. 10 [3]† K		.57	2.24	.15		T	.11			.55	1.05				1.69	T.		T	T.	.59		.12	T			.90		.84				8.81
Grayson [3] O		.52	2.00	.10						.47	.30				1.72					.40		.08				.62		.43				6.64
Greenup, Dam 30[3] O		.35	1.52	.63			.70			.43	.80				1.68	.10			T.	.33		.20	.01			.65		.22				7.62
Hazard [3] K		.05	3.50	.60		.50				.60	1.15				.95	.15			.50			.15				.32		.40				8.87
Heidelberg, Lock No. 14[3] K			.24	.33		.03	.17			1.30	.47				1.76	.65				.97		.14	T.			.92		.85				10.20
Jackson [3] K			3.50	.65		T.	.33		.75	T.	.50				1.58					.57		.26				.55		.60				9.86
Jenkins [3] B			1.52	.86			.51			.11	1.40				.89	.20				.28		.16	.07			.35		.20				6.55
Louisa [3] B		.15	2.73	.60			.25			.63	.50				.98	.10				.25						.72		.42				7.20
Maysville, Dam 33[3] O		.64	1.43	.46			.12			.42	.57				1.18	.04			.01	.31		.12	T.		T.	.54	T.	.45				6.29
Middlesboro C	.01	.43	3.20			.63	.21		.49	.62	.71			.24	.84				.03	.41	.03	.02			.20	.65		.81				9.40
Mount Sterling L																																
Oneida [3]† K																					32					.86		.80				
Oneonta Dam 35[3] O		.30	.52	.07			.08			.61	.50				1.12	.02			.02	.61	T.	.06		T.		.59	.02	.24				4.79
Paintsville [3] B																				.55	.02					.74		.44				
Pikeville K		.37	3.23	T.		.25	.16		.20	.45	.65			.12	.92		T.		T.	.40	.05	.10			.06	.18		.12				7.26
Pippapass K		.28	2.95			.33			.43						1.20					.40		.05		.40		.36						6.29
Quicksand[3] K			4.00				.67			.63		.56		1.83		.10				.65	.10	.13				.76		.62				10.07
Ravenna, Lock No. 12[3] K		.12	1.65	.22		T.	.02			.52	.43				.97	T				.28	T.	.26	T.			.50		.37				5.27
Richmond K	.50	2.60	.05			.50				.75	.75			1.80					.60		.10				1.10		.80				9.85
Valley View, Lock No. 9[3] K		.67	2.16	.18		T.	.23				.97				1.76			T.		.58	.10					.90		.46				7.84
Vanceburg, Dam No. 32 [3] O		.55	1.44	.41			.14			.40	.65				1.35	.04		T.	.03	.54		.14				.62		.49				6.87
Williamsburg [3] C			4.18	1.19		.13	.31			.41	1.30				1.89	.18				.27		.16	.08			.47		1.30				11.87
Willow, Lock No. 13[3] K		.15	.75	.15			.08			1.16	.49				2.45	.47				.81		.12				.76		1.06				11.44
Winchester K		1.30	1.77	.01		.05	.08		.47	1.13	.01			.10	1.87					.65	.11	.01			.04	.83		.71				8.74

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. ‡Precipitation measured with recording gage. [4]Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for February, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	57	53	40	35	48	44	51	53	64	70	39	58	60	57	38	46	54	60	75	51	36	26	40	48	37	38	57	56	..	..	..	49.8
	Minimum	34	39	26	7	17	35	29	33	38	28	18	18	30	37	32	22	37	33	51	36	23	14	8	34	32	34	30	40	..	..	..	29.1
Calhoun	Maximum	56	51	39	35	48	43	50	50	65	67	44	58	65	61	41	49	56	62	78	68	43	32	45	54	46	42	62	65	..	..	..	53.0
	Minimum	32	32	24	1	12	32	26	34	40	27	16	21	31	32	27	21	37	33	53	34	22	15	12	33	29	30	31	41	..	.	..	27.8
Earlington	Maximum	57	55	40	37	49	45	54	62	64	70	36	53	62	60	37	48	55	51	75	70	36	24	43	47	42	41	58	56	..	..	.	51.0
	Minimum	35	39	26	2	15	36	27	40	37	30	18	19	28	36	30	24	41	32	50	34	23	12	6	35	31	33	29	43	..	..	..	29.0
Greenville	Maximum	57	52	41	35	45	44	51	65	62	69	36	54	62	56	47	48	56	60	75	68	35	21	41	48	42	40	53	53	..	..	..	50.8
	Minimum	32	37	24	6	13	34	25	34	36	31	16	16	28	35	29	21	36	34	47	33	21	9	4	31	30	31	26	40	..	..	..	27.1
Henderson	Maximum	56	53	46	39	46	40	52	57	61	69	37	52	62	54	34	45	48	57	70	53	33	20	40	40	34	38	56	54	..	..	..	48.1
	Minimum	32	34	24	0	9	35	25	36	34	25	16	17	32	33	29	21	32	27	48	32	20	13	7	30	28	30	29	39	..	..	..	26.3
Hopkinsville	Maximum	57	44	41	38	48	48	53	70	70	56	44	56	64	58	42	53	57	61	79	62	41	26	40	58	54	45	60	64	..	..	..	53.2
	Minimum	28	41	26	10	24	35	33	33	34	42	18	21	26	39	30	24	29	39	42	41	26	12	8	41	31	33	29	38	..	..	..	29.8
Lovelaceville	Maximum	55	54	36	38	48	43	54	59	63	63	87	51	60	60	45	52	50	53	62	57	33	29	46	50	45	42	53	53	..	..	..	49.6
	Minimum	37	36	24	0	13	35	23	33	35	32	18	19	26	35	30	26	40	36	50	33	22	15	12	35	30	29	31	42	..	..	..	28.5
Mayfield	Maximum	57	56	40	37	45	44	55	63	67	71	37	53	62	58	43	52	53	52	72	53	34	29	45	53	47	41	55	56	..	..	..	51.1
	Minimum	35	37	22	8	21	36	27	39	36	30	17	22	30	34	28	25	41	38	49	32	20	13	12	31	30	29	30	40	..	..	..	29.0
Murray	Maximum	56	60	38	36	36	44	50	61	71	70	38	58	63	53	43	52	54	68	71	61	35	27	45	43	49	40	56	46	..	..	..	51.0
	Minimum	86	38	25	10	25	38	36	38	40	32	18	23	32	36	30	26	42	38	48	43	24	15	14	38	32	32	82	38	..	..	..	31.4
Owensboro	Maximum	54	54	44	33	43	41	52	56	60	60	32	51	58	56	42	45	48	57	73	69	36	26	27	45	85	37	37	56	..	..	..	47.4
	Minimum	28	41	23	0	13	34	26	33	36	25	16	20	30	35	30	20	34	27	47	34	24	12	9	30	27	29	30	42	..	..	..	27.0
Paducah	Maximum	56	42	28	40	50	42	54	58	71	44	40	54	61	51	40	51	48	61	72	36	28	26	45	50	36	40	54	..	.	..	..	[a]47.3
	Minimum	28	41	26	16	16	19	26	28	87	37	20	21	23	30	30	28	28	38	40	36	24	18	16	18	32	30	30	36	..	..	..	27.6
Paducah (near)	Maximum	57	54	35	42	45	42	55	59	65	70	40	53	61	59	42	53	48	57	72	55	33	28	45	50	44	40	56	55	..	..	..	50.5
	Minimum	37	35	25	−5	12	36	25	37	35	28	18	21	33	34	30	25	40	33	55	33	22	15	11	31	30	30	36	40	..	..	..	28.6
Princeton	Maximum	58	52	35	39	50	43	54	64	64	64	40	55	62	54	40	51	54	57	74	54	34	27	44	51	39	41	53	54	..	..	..	50.2
	Minimum	36	35	25	4	14	36	26	34	38	28	18	20	25	36	30	25	41	37	50	34	23	13	10	33	31	31	30	40	..	..	..	28.6
Russellville§§	Maximum	50	48	32	29	45	45	56	65	68	43	38	47	59	55	40	48	55	50	78	49	31	25	38	58	36	37	50	49	..	..	..	47.6
	Minimum	38	40	29	12	20	37	29	28	38	41	18	18	20	31	30	18	23	40	41	45	29	12	8	21	34	34	29	81	..	..	..	28.4
Central Division.																																	
Anchorage	Maximum	57	50	38	37	48	44	51	64	60	68	34	50	61	56	41	40	55	60	76	69	36	24	36	42	33	37	52	54	..	..	..	49.0
	Minimum	33	38	26	4	12	34	35	30	36	29	16	17	26	39	28	16	31	24	51	35	24	13	10	30	27	33	36	38	..	..	..	27.5
Bowling Green	Maximum	55	54	45	46	51	49	53	68	64	68	40	53	59	58	51	49	59	60	73	69	44	38	40	54	50	42	58	58	..	..	..	53 9
	Minimum	34	44	29	18	25	38	32	86	43	84	20	22	28	42	32	25	88	41	52	42	27	15	13	35	33	37	31	45	..	..	..	32.5
Danville	Maximum	55	50	49	35	53	50	50	67	61	67	4	53	61	60	54	42	59	65	76	70	46	33	34	50	45	43	53	64	..	..	..	53.1
	Minimum	31	41	27	15	20	37	35	83	41	87	18	17	30	45	31	20	31	40	51	41	26	13	9	32	29	36	35	46	.	..	..	31.0
Dix Dam	Maximum	54	52	38	35	53	51	67	64	67	59	49	53	65	61	52	42	58	62	75	45	32	28	35	41	45	42	54	64	..	..	..	51.5
	Minimum	34	43	29	17	23	34	30	43	39	45	20	21	35	48	33	21	34	38	37	32	15	15	12	35	30	38	35	52	..	..	..	31.7
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	30	28	26	17	22	39	33	33	41	37	17	19	25	34	28	20	31	40	49	41	25	12	9	22	32	29	34	45	..	..	..	29.2
Frankfort	Maximum	56	51	46	31	48	48	52	66	58	51	40	52	59	60	51	40	57	61	76	72	41	26	34	44	37	39	51	61	..	..	..	50.3
	Minimum	33	42	28	10	15	34	32	30	40	34	12	18	24	44	31	17	31	29	51	41	26	13	14	32	28	33	31	43	..	..	..	29.1
Glasgow	Maximum	54	55	47	36	54	54	54	66	66	61	40	55	58	59	53	49	55	60	74	72	46	..	..	..	..	42	56	58	..	..	..	[d]55.2
	Minimum	32	44	28	18	24	39	35	30	42	36	19	20	28	51	32	23	33	38	52	43	28	..	..	..	..	37	30	49	..	..	..	[d]33.8
Greensburg	Maximum	55	53	47	38	53	52	52	66	66	69	38	54	60	58	54	47	58	64	75	73	46	29	30	52	48	42	58	60	..	..	..	53.5
	Minimum	31	43	26	16	21	36	31	27	40	34	17	17	22	49	31	20	32	40	50	44	26	12	9	32	30	36	31	45	..	..	..	30.3
Irvington	Maximum	55	51	40	34	46	45	52	64	59	69	36	51	59	56	42	42	55	60	73	67	40	25	35	45	35	38	53	55	..	..	..	49.4
	Minimum	34	40	27	7	19	37	34	41	38	27	17	20	33	42	31	19	35	33	52	35	25	13	11	35	29	33	35	42	..	..	..	30.1
Leitchfield	Maximum	54	54	44	34	48	45	52	64	61	68	37	52	58	57	43	45	57	61	74	68	37	24	35	48	40	39	55	56	..	..	..	50.4
	Minimum	32	43	26	11	18	36	34	36	41	30	16	19	30	43	30	20	36	35	50	37	24	10	8	34	30	34	31	41	..	..	..	29.8
Lexington	Maximum	53	49	38	37	50	47	50	65	62	65	39	50	59	61	41	42	54	62	75	54	36	22	36	45	38	40	57	64	..	..		49.7
	Minimum	31	38	25	14	23	33	34	35	40	25	17	20	31	41	25	16	33	33	50	36	20	12	11	29	28	35	34	35	..	..	..	28.9
Louisville	Maximum	56	48	33	33	46	44	50	61	68	69	37	50	60	55	35	40	52	58	74	54	35	22	39	43	37	38	50	57	..	..	..	48.0
	Minimum	33	33	21	14	22	39	35	36	36	22	16	24	34	35	22	16	34	33	51	33	17	14	14	28	27	34	35	37	.	..	..	28.4
Do. Bowman Field	Maximum	57	48	33	32	47	45	53	63	68	69	36	50	60	57	35	42	54	60	76	54	35	23	40	43	36	37	52	56	..	..	..	48.6
	Minimum	33	33	22	9	15	37	34	35	36	22	17	22	32	35	22	17	34	30	52	34	17	14	14	29	28	34	35	37	..	..	..	27.8
Mammoth Cave	Maximum	55	52	42	35	51	43	51	67	62	68	39	53	58	58	50	47	56	60	74	69	40	25	37	52	44	40	56	56	..	..	.	51.4
	Minimum	31	40	24	11	19	38	33	34	42	28	16	15	29	47	19	18	36	38	49	38	23	10	24	33	30	35	29	40	..	..	..	29.6
St. John	Maximum	55	53	47	32	47	46	55	67	64	72	37	52	58	58	43	49	55	60	74	73	45	28	34	49	46	37	54	59	.	..	..	51.8
	Minimum	31	41	25	11	11	33	31	33	39	33	15	17	27	46	18	30	81	33	50	36	25	9	11	32	28	33	29	43	..	..	..	28.6
Shelbyville	Maximum	54	49	44	34	45	43	50	62	55	64	37	47	58	57	48	38	52	57	73	69	39	27	32	43	37	37	48	55	..	..	..	48.4
	Minimum	31	39	25	4	14	34	30	31	36	30	15	18	26	41	29	14	20	26	48	30	23	11	10	30	25	31	31	41	..	..	..	26.5
Smith's Grove	Maximum	56	54	48	36	52	49	53	68	64	69	42	54	59	58	50	50	57	62	74	69	42	26	38	58	45	41	57	57	..	..	..	53.0
	Minimum	33	42	27	16	25	42	35	38	46	30	18	20	28	50	30	23	36	38	52	41	24	13	11	31	33	86	31	42	..	..	..	31.8
Stearns	Maximum	52	54	47	38	52	48	53	62	62	64	40	54	58	55	52	48	60	64	72	68	48	28	38	56	45	44	58	64	..	..	..	53.0
	Minimum	30	42	29	26	27	43	35	37	48	40	21	21	31	48	32	23	32	44	52	46	28	12	10	30	31	38	31	48	..	..	..	33.4
Taylorsville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
Williamstown	Maximum	55	54	53	42	48	45	48	63	60	67	55	50	60	60	52	42	56	60	75	75	60	50	40	40	38	38	46	63	..	..	..	53.4
	Minimum	80	40	25	10	15	35	82	30	35	85	10	20	83	44	30	11	30	27	50	37	25	11	5	30	24	30	34	40	..	..	..	27.8
Eastern Division.																																	
Annville	Maximum	34	55	47	37	39	55	49	53	66	68	51	40	53	61	57	35	45	58	68	75	55	43	33	35	55	45	45	60	..	..	..	50.6
	Minimum	80	33	35	24	20	22	34	26	27	44	22	17	20	22	34	21	23	41	50	46	32	13	10	18	31	33	38	37	..	..	..	28.7
Ashland	Maximum	45	45	44	31	49	49	45	62	62	62	42	45	56	60	51	35	54	65	76	71	48	31	35	45	50	48	55	74	..	..	..	51.2
	Minimum	27	38	29	21	19	36	84	29	38	41	23	18	25	36	33	19	27	42	42	48	31	20	4	28	28	35	36	43	..	..	..	40.8
Berea	Maximum	50	50	46	35	53	52	49	67	60	66	..	..	..	..	..	..	..	..	..	..	..	..	32	..	..	..	..	..	..	..	..	......
	Minimum	24	32	27	19	24	43	34	30	40	39	19	19	32	49	32	19	17	42	35	35	26	12	5	19	30	37	36	29	.	..	..	25.8
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
Farmers	Maximum	53	54	47	39	52	53	50	65	65	49	43	50	60	61	56	38	47	61	74	75	48	30	30	40	42	41	50	62	..	..	..	51.2
	Minimum	31	40	30	21	21	36	37	27	37	42	20	16	21	43	32	19	29	48	47	46	28	10	12	30	27	34	36	43	..	..	..	30.8
Heidelberg	Maximum	57	53	44	43	51	48	54	68	62	68	43	54	62	62	51	42	59	63	76	74	50	30	34	52	47	46	57	68	..	..	..	54.8
	Minimum	32	40	36	27	22	36	36	26	37	43	23	19	21	38	36	22	27	40	52	50	36	15	14	33	31	38	39	45	..	..	..	32.6
Maysville	Maximum	51	51	46	33	51	45	48	64	55	68	41	49	69	60	54	37	55	60	76	54	42	23	30	41	38	42	49	67	..	..	..	49.8
	Minimum	30	40	28	12	14	35	33	27	39	40	20	19	25	36	33	17	28	28	46	42	28	16	3	30	27	33	35	43	.	..	..	28.8
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
Pikeville	Maximum	60	51	48	37	58	46	54	68	60	72	46	54	60	60	62	46	60	64	79	74	57	34	36	55	48	61	63	76	.	..	..	56.8
	Minimum	30	42	34	31	24	38	34	29	38	46	30	23	25	40	37	27	28	42	44	54	34	20	17	32	30	42	41	48	..	..	..	34.3
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	30	38	32	28	22	36	38	28	37	47	25	20	24	42	34	24	28	44	45	51	35	16	14	28	28	39	38	46	..	..	..	32.6
Quicksand	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	29	36	29	24	20	34	31	25	34	40	21	18	21	38	31	21	26	42	43	40	29	14	11	29	23	38	37	44	..	..	..	29.8
Richmond	Maximum	55	45	34	40	55	45	50	65	55	46	42	55	60	60	36	43	55	66	77	65	35	25	35	45	43	43	55	65	..	..	..	49.5
	Minimum	32	42	32	18	25	43	33	36	43	45	20	22	35	50	33	20	33	40	54	47	37	14	11	28	32	36	36	45	..	..	..	33.6
Williamsburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	......
	Minimum	31	45	33	39	25	40	32	31	40	42	24	20	22	39	33	25	27	39	52	45	28	10	12	18	29	31	28	41	..	..	.	31.5
Winchester	Maximum	53	49	45	32	49	47	46	66	57	65	36	50	58	59	49	40	56	62	74	70	41	25	32	46	39	42	53	64	.	..	..	50.2
	Minimum	31	40	26	16	23	40	34	34	42	36	18	20	29	45	30	17	31	38	52	40	25	12	11	31	28	36	34	42	..	..	..	30.8

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
[a], [b], [c] etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 3 25-39 1100

51.05
KE
49
0.3

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

THE LIBRARY OF
APR 25 1939
UNIVERSITY OF

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., MARCH, 1939 No. 3

GENERAL SUMMARY.

The temperature averaged considerably above normal, but short cold intervals checked the premature development of vegetation. Temperatures above normal in the second week stimulated rather vigorous growth of winter grains on the warmer uplands. The inclement weather that followed in the third week caused a brief return to dormant conditions. This cold spell was beneficial in delaying the blooming of fruit trees, which had been somewhat affected by the preceding warmth. Several very warm days in the third decade brought rapid development of buds on peach, plum and pear trees, with partial blossoming toward the end in central and western districts. Considerably colder weather toward the end delayed flowering, which was completed within the month only in the extreme western counties. Strawberries commenced to bloom in that section in the last few days. Winter grains, pastures, old clover, and alfalfa started very irregularly, depending on the reaction of the various types of soil and exposures to the variable temperatures and wet weather.

Precipitation averaged considerably above the normal amount for this month. The first and last weeks were too wet in most districts for working the soil. As a rule this phase of the weather was most unfavorable in the northern counties, where the rainfall was greatest. The wet weather early in the month prevented any progress of consequence in sowing tobacco plant-beds. Most of this work was done in the second and third weeks, when precipitation was generally light to moderate. Toward the end of this period early gardening and potato planting began. Also, there was some sowing of oats. Heavy rain in the last week stopped all farm operations that required stirring the soil. Flooding of bottom lands in western districts and standing water on flat uplands almost entirely prevented plowing in such localities. Ground plowed early in the winter was so badly packed by the repeated heavy rains, that conditioning it for planting required an unusual amount of work. At the end of the month fruit was rather advanced, winter grains had reached about the average stage, while spring work was generally behind.

TEMPERATURE.

The month began with two cool days. In the next decade mean temperatures on most days ranged from 5° to 20° above normal. Daily deficiencies in the cold period that followed from the 16th to 19th were 8° to 16°, with minima of 16° to 25°. Temperatures 10° to 25° above normal prevailed from the 20th to 26th, and maxima ranged from 65° to 85° at most stations. Extremes for the State were 90° at Calhoun on the 23d and 15° at Farmers on the 19th.

PRECIPITATION.

Precipitation in the northern and central counties ranged from 6.0 to 8.0 inches, and was fifty per cent or more above normal in much of that area. The region of heaviest rainfall was in a narrow belt near the Ohio River from Jefferson County to the lower Big Sandy. Monthly amounts decreased irregularly toward the southeastern and southwestern border counties, where they varied between 4.0 and 5.0 inches. The range for the State was from 3.33 inches at Jenkins to 8.56 inches at Falmouth. By far the greater part of the State received more rain than usual in March, which is the month of heaviest precipitation. Heavy rains visited all districts in the period 4-6th. Heavy rainfall occurred less generally but reached most sections from the 27th to 30th. In the period 10-13th the rains were very irregular, ranging from light to excessive, with the heaviest falls mainly in the northern counties. On the 5th twenty-four hour amounts of 2.0 to 3.0 inches were registered at many stations. Light scattered showers occurred on the 15th and 16th. A trace of snow, the total for the month, fell in most districts on the 18th and 19th. Thunderstorms were reported on the following dates: 4, 5, 9, 10, 11, 12, 15, 30, 31.

MISCELLANEOUS.

Rivers:—The Ohio was above flood stage on the 1st from Evansville to the mouth. A new rise that began on the 5th raised it to flood stage from Dam 44 to Evansville and increased the flood in the lower river. It subsided slowly in the lower course, broken by another slight rise on the 12th, and finally dropped below flood stage at Cairo on the 29th. The upper Green River was above flood stage in the period 6-9th, and the lower Green from the 1st to 21st.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum Velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.08	30.49	18	29.32	12	10.1	32	sw.	11	75	54	57	66
Cincinnati .....Ohio	30.08	30.58	19	29.30	12	9.8	31	w.	15	74	55	54	58
Evansville..... Ind.	30.09	30.52	18	29.30	12	10.2	33	sw.	11	73	54	52	63
Louisville .....Ky.	30.08	30.57	19	29.36	12	11.6	40	w.	15	72	54	52	66

COMPARATIVE DATA FOR MARCH.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	40.5	84	18	1.52	....	..	..	..	..
1890	41.2	78	4	8.34	....	..	..	..	..
1891	41.8	71	9	8.08	...	..	..	..	..
1892	40.6	82	7	4.08	....	..	..	..	..
1893	45.0	89	5	2.76	....	..	..	..	..
1894	50.8	86	10	2.72	....	..	..	..	..
1895	45.0	88	15	3.17	....	9	13	8	10
1896	41.1	80	8	6.16	....	12	9	9	13
1897	49.6	86	20	7.94	0.2	14	8	9	14
1898	50.7	84	16	7.59	1.0	13	8	9	14
1899	43.9	80	− 3	8.10	2.4	15	8	10	13
1900	42.8	81	− 3	2.58	3.9	9	11	8	12
1901	46.4	87	3	3.50	0.5	10	9	7	15
1902	47.2	82	7	4.44	6.1	11	10	9	12
1903	52.5	85	19	4.43	T.	12	9	7	15
1904	47.7	88	12	6.26	0.5	12	8	8	15
1905	52.2	86	22	4.45	T.	9	15	6	10
1906	39.2	75	3	6.37	2.0	16	6	5	20
1907	54.9	92	18	2.28	0.8	10	13	6	12
1908	51.8	88	10	5.42	0.7	13	10	7	14
1909	44.8	74	17	5.14	T.	11	11	7	13
1910	55.0	91	11	0.79	0.3	3	18	7	6
1911	46.0	87	7	2.57	0.6	9	14	5	12
1912	41.3	88	10	6.22	6.6	15	9	3	19
1913	46.5	85	9	7.22	0.5	10	12	7	12
1914	41.8	78	2	3.62	6.4	12	10	6	15
1915	37.8	65	11	2.11	3.5	8	12	5	14
1916	43.5	84	4	3.39	3.7	10	12	8	11
1917	45.9	84	0	6.52	8.1	14	13	6	12
1918	51.6	85	17	1.97	T.	8	15	7	9
1919	47.6	81	16	5.65	T.	9	15	6	10
1920	46 3	88	− 1	4.85	0.6	10	15	6	10
1921	56.7	87	19	5.75	T.	11	13	9	9
1922	49.4	83	19	8.11	0.5	14	9	6	16
1923	45.6	80	8	5.27	T.	9	15	7	9
1924	41.6	81	14	3.05	1.8	9	9	5	17
1925	49.2	84	4	3.59	0.4	9	16	7	8
1926	40.2	84	4	2.80	2.3	11	12	6	13
1927	48.4	82	10	6.04	3.5	11	12	7	12
1928	45.6	85	12	2.64	2.7	8	12	8	11
1929	52.0	94	9	4.17	1.2	10	13	8	10
1930	44.5	76	9	2.17	1.2	9	15	7	9
1931	41.4	73	24	3.66	1.9	17	7	7	17
1932	41.2	80	4	4.95	1.5	10	11	8	12
1933	46.0	78	10	6.52	T.	11	7	12	12
1934	43.6	80	5	4.83	2.1	13	12	7	12
1935	54.6	86	20	9.56	0.8	14	9	8	14
1936	50.7	81	19	4.85	5.2	11	14	8	9
1937	42.2	77	6	1.43	2.3	7	14	7	10
1938	53.7	86	11	6.29	T.	13	8	10	13
1939	49.4	90	15	5.78	T.	9	14	8	9
Period	46.4	94	− 3	4.72	1.8	11	12	7	12

51-year averages.

Climatological Data for March, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	27	50.4	+ 2.8	82	23†	23	19	38	6.23	+1.99	1.83	T.	10	11	10	10	nw.	Eldred G. Young.
Calhoun	McLean	437	35	52.2	+ 3.8	90	23	25	2	47	6.72	+2.15	2.29	0	9	18	4	9	.....	R. C. Bennett.
Earlington	Hopkins	420	45	51.9	+ 4.5	84	23†	24	18	39	5.51	+0.93	2.00	0	7	21	5	5	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	5.80	+0.77	3.49	T.	10	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	...	.....	.....	.....	.....	.....	.....	.....	5.46	.....	2.41	0	8	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	49.9	+ 2.6	84	23	20	17	40	5.46	+1.07	1.80	0	9	19	2	10	s.	C. R. Lovell.
Hartford (near)	Ohio	640	...	.....	.....	.....	.....	.....	.....	.....	7.18	.....	2.25	0	11	20	3	8	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	50.0	.....	83	23	22	19	36	4.55	−0.86	2.08	0	8	21	5	5	w.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	51.0	+ 2.2	84	23	25	3†	43	6.34	+1.47	1.98	0	8	25	5	1	n.	W. K. Morris.
Lovelaceville	Ballard	479	10	50.9	+ 2.6	83	22†	23	18	47	4.87	−0.82	1.80	0	7	17	6	8	s.	Blaine Malone.
Mayfield	Graves	364	30	51.4	+ 1.7	83	23	24	18	35	4.29	+0.26	1.19	0	9	12	12	7	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	52.2	+ 3.6	84	23	25	18	37	3.91	−2.04	0.94	0	8	9	11	11	s.	Pat W. Wear.
Owensboro	Daviess	420	42	48.4	+ 1.9	81	24	22	18	37	5.48	+1.21	2.70	0	8	16	3	12	nw	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	5.73	+1.96	2.75	0	11	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	50.4	+ 0.6	84	23	28	1†	39	5.50	+0.99	3.29	0	12	12	11	8	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	52.2	+ 3.8	85	23	23	18	37	5.18	+0.83	2.52	0	7	13	4	8	.....	Joe Lagore.
Princeton	Caldwell	529	32	51.7	+ 4.0	83	23	24	18	39	5.85	+1.75	2.09	T.	9	10	15	6	s	Dr. W. L. Cash.
Ramsey, Lock 2	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	6.65	+2.15	2.69	0	11	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	a46.7	− 0.4	79a	24	25a	18	39a	5.11	+0.34	1.41	0	9	12	8	11	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	5.11	+1.18	8.48	0	10	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	552	11	.....	.....	.....	.....	.....	.....	.....	6.40	+2.54	2.36	0	12	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	47.2	+ 2.8	82	23†	18	19	45	5.69	+1.43	2.34	0	7	22	3	6	se.	C. E. Barret.
Bowling Green	Warren	500	43	52.1	+ 3.7	84	23†	24	19	40	6.48	+1.38	1.25	0	10	19	5	7	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	6.38	+1.15	2.07	0	14	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	4.72	−0.49	1.16	0	15	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	7.64	+3.82	2.31	0	8	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	7.30	+3.75	1.90	T.	9	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	49.5	.....	83	24	16	19	44	5.30	+1.39	2.40	T.	10	15	7	9	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	49.8	.....	84	24	19	19	44	5.15	+1.75	2.12	0	9	15	8	8	s.	Kentucky Utilities Co.
Eadsville	Wayne	622	...	.....	.....	.....	.....	.....	.....	.....	4.20	.....	1.22	0	11	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	.....	.....	.....	4.50	−0.21	1.57	0	6	10	6	15	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	48.5	24†	84	24	17	19	50	5.93	+1.55	2.64	T.	8	13	9	9	sw.	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	7.09	+2.53	2.60	0	9	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	50.4	+ 3.2	80	25	20	19	41	5.36	−0.43	2.08	0	10	9	20	2	s.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	8.41	+5.39	2.61	0	9	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	49.6	+ 3.5	82	25	17	19	42	6.02	+0.95	2.38	0	8	24	1	6	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	4.96	+0.66	2.25	0	12	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	49.6	+ 2.8	81	24	24	19	34	6.21	+1.74	2.84	T.	8	15	7	9	sw.	W. J. Piggot.
Lancaster	Garrard	1032	18	.....	.....	.....	.....	.....	.....	.....	6.64	+1.79	2.10	0	9	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	49.6	+ 3.0	84	24	22	18†	36	6.34	+1.92	2.52	0	11	12	11	8	nw.	H. H. Willis.
Lexington	Fayette	989	55	47.2	+ 3.5	82	24	18	19	35	5.39	+1.07	1.72	T.	10	10	7	14	.....	U. S. Weather Bureau.
Little Hickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	5.15	+0.79	2.25	0	7	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	6.51	+2.07	2.80	T	7	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	48.6	+ 3.2	81	23	24	17	35	7.11	+2.72	2.82	T.	9	17	6	8	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	47.9	....	81	24	22	19	38	7.42	.....	2.83	T.	8	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	48.6	.....	83	24	16	19	43	6.41	.....	2.21	0	16	12	3	16	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	5	.....	.....	.....	.....	.....	.....	.....	4.63	.....	1.10	0	18	15	7	9	.....	E. O. Cooper
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	6.17	+2.22	2.20	0	8	.....	.....	.....	.....	Mrs. M. W. Price.
St. John	Hardin	777	43	49.1	+ 4.1	82	23†	19	19	43	6.58	+1.94	2.48	T.	11	19	4	8	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	5.97	+1.79	2.90	0	8	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	46.4	+ 1.8	82	24	17	19	36	7.46	+2.71	2.90	T.	12	13	0	18	s.	Willa L. Ratta,
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	6.67	.....	2.36	0	10	9	16	6	w.	A. McLeod.
Smith's Grove	Warren	607	1	50.4	.....	82	24	23	19	38	5.89	.....	1.48	0	10	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	49.1	.....	80	24	20	19	36	4.73	.....	1.46	T.	14	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	.....	.....	.....	.....	.....	.....	.....	6.56	+2.04	3.00	0	5	5	22	4	w.	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	5.74	+2.09	2.98	0	8	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	47.7	+ 4.0	84	24	16	19	40	8.25	+4.21	3.40	0	6	19	4	8	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	5.72	+1.08	2.21	0	14	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	...	47.2	.....	80	25	15	19	39	4.89	.....	1.02	0	11	10	12	9	sw.	W. A. Worthington.
Ashland	Boyd	534	22	47.4	+ 1.8	83	24	17	19	33	7.23	+2.91	2.63	0	11	10	10	11	w.	Lockmaster.
Berea	Madison	1070	36	48.6	+ 2.0	82	24	17	19	40	5.64	+0.65	1.66	0	10	14	4	13	w	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	5.22	+0.69	2.20	0	10	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields,
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	6.29	+2.09	2.69	0	7	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	8.56	+4.47	2.30	T.	10	.....	.....	.....	.....	J. V Oldham.
Farmers	Rowan	668	32	48.1	+ 3.1	81	25	15	19	43	5.75	+1.28	2.45	0	11	10	6	15	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	6.77	+2.18	2.40	0	9	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	23	.....	.....	.....	.....	.....	.....	.....	4.53	+0.37	2.12	0	8	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	4.83	+2.15	2.30	T.	6	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	7.25	+3.57	2.69	T.	14	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	3.84	−0.36	1.45	0	8	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	4	49.4	.....	83	24	17	19	50	5.55	+0.80	1.45	0	10	9	5	17	sw	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	5.47	.....	1.64	0	8	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	3.33	−1.42	0.75	0	8	.....	.....	.....	.....	R. J Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	6.19	+1.96	1.70	0	9	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	41	47.0	+ 2.7	82	24	16	19	47	7.49	+3.25	2.60	T.	11	8	12	11	w	Lockmaster.
Middlesboro	Bell	1128	40	b50.4	+ 2.5	81d	24	20d	19	47d	4.13	−1.11	1.07	T.	14	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	4.56	.....	1.56	0	6	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	7.26	+3.45	2.32	T.	11	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	4.72	.....	1.33	0	11	.....	.....	.....	.....	L. L. Donta.
Pikeville	Pike	636	3	51.6	.....	83	24	22	19	42	3.89	−0.43	0.87	T.	12	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	3	.....	.....	.....	.....	20	19	.....	4.25	.....	1.00	0	8	20	5	6	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	.....	.....	.....	.....	17	19	.....	5.15	−0.72	1.57	0	7	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	4.84	+0.88	1.97	0	9	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	49.0	+ 3.4	82	24	20	19	38	5.60	+1.21	2.10	0	10	15	16	0	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	4.60	−0.03	1.63	0	8	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	6.48	+2.24	2.51	0	11	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	.....	.....	.....	19	19	.....	.....	4.33	−0.27	1.40	0	9	16	4	11	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	5.51	+1.21	2.00	0	10	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	....	47.6	.....	81	24	19	19	41	4.88	.....	2.30	T.	11	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	...	49.4	+ 3.0	90	23	15	19	50	5.78	+1.06	3.49	T.	9	14	5	9	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for March, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																														
Beaver Dam..... G				.72	1.83					.29	.02	.68			.02			T.								.23	.78		.46	1.26	--	6.23
Calhoun..... G				.58	2.29					.88	.08	1.11														.20	1.21		.21	.71		6.72
Carlington..... G				.56	2.00					.41										.03							1.25		.40	.86		5.51
Fords Ferry Dam 50[3]..... O				.02	3.49					.43	.01	.81	.08		T.				T.	T.						T.	.61	.03	.15	.12		5.80
Gilbertsville[2]..... T				.10	2.41					.85		.70	.06														.43		.41	.50		5.46
Greenville..... G				.48	1.80					.30		.57			.02											.25	.60		.66	.91		5.46
Hartford..... G				.65	2.25					.33	.04	1.28			.02					.01						.18	.86		.36	1.20		7.18
Henderson..... O				.70	2.08					.26	.30	.52														.13	.30		.26			4.65
Hopkinsville..... C				.26	1.98					.44		.40															.60	.16	.90	1.60		6.34
Lovelaceville..... M				1.80	1.00					.50		.50														.60		.37			.10	4.87
Mayfield..... M				.78	1.19					.58		.42								.01							.35	.10		.54	.52		4.29
Murray..... T				.54	.48					.88	.05	.30																.50		.92	.94		3.51
Owensboro..... O				.05	2.70					.14	T.	.63									T.					.20	.95		.29	.54		5.48
Owensboro, Dam 46[2]..... O				.03	2.75					.06	.07	.32	.33		T.	T.				.02						T.	1.19	.15	.05	.76		5.73
Paducah[2]..... O				.03	3.29					.77	.01	.65	.01								.01					.07	.30	.03	.32	.03		6.50
Paducah (near)[2]..... O				2.52	.52					.78		.56														.38	.08		.34			6.18
Princeton..... G				.65	2.09				T.	.55		.69						T.		.01						.09	.52		.45	.80		5.85
Rumsey, Lock No. 2[2]..... G				.06	2.69					.26	.21	.58	.38							.02							1.30	.16	.05	.94		6.65
Russellville[2]..... G				.18	1.41						.04	.60									.02						.98	.15	1.16	.57		5.11
Uniontown, Dam 49[2]..... O				.01	3.48					.41	.01	.48	.10													T.	.27	.06	.05	.24		5.11
Central Division																														
Addisou, Dam 45.[2]..... O				.01	2.36	T.				.03	.04	.39	.39		.01	T.				T.						T.	1.78	.32	.02	1.04	.01	6.40
Anchorage..... O				.63	2.34						.05	.55							T.								.78		.17	1.17		5.69
Bowling Green..... G				1.05	1.05					.10		.78									.05					.70	.90	.10	1.25	.50		6.48
Brownsville, Lock No. 6[2]..... G				.10	2.07	.01				.09	.13	.83	.30		.09					T.	.03					.10	1.42	.27	.04	1.40		6.68
Burnside[2]..... C				.09	.88	1.16					.11	.43	.31		.09		.07			.03	.04					.03	.67	.21	.02	.77		4.72
Carrollton Lock No. 1[2]..... K					2.31						1.21	1.05	.24		.10												1.21	.40		1.12		7.64
Cold Spring, Dam 36[2]..... O					1.40						.72	1.90	.48		T.		T.		T.	.04							.60	1.31		.80	.05	7.30
Danville[2]..... K					2.40	.06				T.	.07	.60	.40		.07	T.	T.	T.	T.								.35	.05	.01	1.33		5.50
Dix Dam, Burgin..... K				2.12	.12					.14	.38	.35		.10												.66	.11		1.17			5.15
Eadsville[2]..... O				.15	.51	.58			.04	.16		.24	.19													.15	.39	.17		1.22		4.20
Eubank..... C					1.57	.65					.14	.70														.32				1.12		4.50
Frankfort, Lock No. 4[2]..... K					2.64						.05	.11	.42		.01	T.	T.	T.	T.								1.14	.10	T	1.46		5.93
Gest, Lock No. 3[2]..... K					2.60						.22	.14	.32	.14	.32		T.										1.60	13		1.62		7.09
Glasgow..... G				.15	1.82	.07				.09	.08	.11														.14	.81		.01	2.08	T.	5.36
Grant, Dam 35[2]..... K					1.74						1.15	2.61	.16		.05	T.	T.										.44	1.41		.82	.03	8.41
Greensburg[2]..... G					2.38	.59					.16	.24	.38														.74		.03	1.50		6.02
High Bridge, Lock No. 7[2]..... K					2.25	.06				.02	.15	.36	.34		.05	.10				.02							.40	.11	T.	1.10		4.96
Irvington..... O				.26	2.84					.03	T.	.78					T.	T.								.20	.94		.22	.94		6.21
Lancaster[2]..... K				2.10	1.12					.10	.55	.35		.07												.35			1.50	.50	6.64
Leitchfield[2]..... G				.07	2.62					.14	.13	.53			.02					.03						.04	.78	.11	T.	1.97		6.34
Lexington[2]..... K				1.72	1.21					T.	.05	.68			.16		T.	T.								.18	.39		.61	.34	.05	5.39
Little Hickman, Lock No. 8[2]†..... K					2.25	T.					.25	.65	.40														.40		.78	.52		6.16
Lockport, Lock No. 2[2]..... K					2.80						.29	.16	.55				T.										.62	.57		1.52		6.51
LOUISVILLE[1]†..... O				1.76	1.06						.32	.51			T.	T.	T.	T.	T.	.01						.61	1.65		.64	.55	T.	7.11
Do. Bowman Field..... O					2.85						.06	.26	.32		T.	T.	T.	T.	T.	.01							.94	1.34	T	1.66		7.42
Mammoth Cave[2]..... G				.09	2.21	.03				.08	.08	.72	.04		.08					.03	.03					.04	.98	.16	.07	1.76	.01	6.41
Monticello[2]..... C				.14	.64	1.10				.05		.48	.25		.05					.10	.14					.10	.48	.15		.95		4.63
Munfordville[2]..... G				.06	2.20	.59				T.	.20	.67			T.											T.	.61	.25	T.	1.59	T.	6.17
St. John..... S	T.			.32	2.48					.03	.03	.88			.03					.01						.17	.66		.39	1.38	T.	6.68
Salvisa, Lock No 6[2]†..... K					2.50					T.	.10	.46	.52		.10												.20	.60	T.	1.07		5.95
Shelbyville..... S					2.90						.10	.70			.02	T.	T.	T.		.01						.22	1.55	.02	.23	1.38	.05	7.46
Shepherdsville..... S					2.36					.05	.02	.52			T.											.48	1.18	.02	.33	1.19		6.67
Smith's Grove..... G				.97	1.02					.12	.10	.45			T.					.11						.66	.36		1.48	.62		5.89
Stearns..... C				.73	.80	.74				.12	.02	.16	.03		.33					.06						.06	.77	.05	.30	.56		4.73
Taylorsville..... O					.70							.60	.60														1.55	.01		1.40		6.56
Tyrone, Lock No. 5[2]†..... K					2.95						.04	.25	.35		.08			T.									.60	.25	T.	1.16		5.74
Williamstown..... L					2.25	[4]					3.40	.40															.60		.20	1.40		8.25
Woodbury, Lock No. 4[2]..... G				.16	2.21					.16	.10	.25	.30		.03					.03	.03					.02	.68	.08	.02	1.65		5.72
Eastern Division																														
Annville[2]..... C				.02	.75	.89					.32	.60	.32								.02					T.	.10	1.02		.82	.03	4.89
Ashland[2]..... O					1.87						.06	2.63	.40			.09				.05	.06						.09	.91		.62	.45	7.23
Berea..... K					1.66	.74				.04	.10	1.05			.14					T.						.09	.18		.80	.84		6.64
College Hill, Lock No. 11[2]..... K					2.20	.31				.03	.19	.56	.30			.20											.23	.08		1.18	T.	5.28
Cumberland..... C																														
Cynthiana[2]..... L					2.69						.87	.36	.34														.76		.98	.29	6.29
Falmouth[2]..... L					2.30						1.05	2.21	.33		.04	.03	T.	T.	T.	.03							1.03	.27		1.27		8.56
Farmers[2]..... L					2.45	.07					.85	.34	.48		.08	.17	T.	T.		T.						.14	.18		.29	.75		5.75
Flemingsburg[2]..... L					2.40						1.15	.66	.32			.16				.24							.48	.56		1.10		6.77
Ford, Lock No. 10[2]†..... K				T.	2.38	.02					.08	.40	.40		T.	.10			T.								.19	.12		1.10		4.58
Grayson[2]..... O					2.30						.30	.92							T.	T.							.53		.58	.20	4.83
Greenup, Dam 30[2]..... O					2.10	.28					.03	2.69	.22			.12			T.	.03	.02				.01		.09	.62	.02	.78	.24	7.25
Hazard[2]..... K					.70	1.45							.25			.36											.33	.05	.65	.05	3.84
Heidelberg, Lock No. 14[2]..... K					1.45	1.08					.35	.50	.48			.09											.08	.66		.93	.09	5.55
Jackson[2]..... K					1.64	.80				T.	.45	.80	.08		T.											T.	1.68		.57	.05	5.47
Jenkins[2]..... K					.60	.75					.34		.35			.37											.23		.69	.12	3.33
Louisa[2]..... B					1.70	1.30						1.30	.35			.08											.05	.75		.52	.14	6.19
Maysville, Dam 33[2]..... O					1.90	.23					.23	2.60	.16		T.	.13	T.	T.	.05								.45	.56		1.02	.16	7.49
Middlesboro..... C					.67	.05	.82			.08	.07	.10	.04		.20			T		.02						.19	.42	.04	.36	1.07		4.18
Mount Sterling..... L																														
Oneida[2]†..... K					.68	1.06					.25																	1.56		.68	.33	4.56
Oneonta Dam 35[2]..... O					1.62	.09					.43	2.32	.35		.03	T.	T.	T.	.02								.47	.79		1.06	.08	7.26
Paintsville[2]..... B					1.10	1.33					.14	.16	.60			.18											.03	.57	.01	.52	.13	4.72
Pikeville..... B					.11	.87	.73			.02	.60	.36	.07		.20		T	T.		T.						T.	.23	.07	.08	.55	T.	3.89
Pippapass..... K						.95	1.00				.35	.30			.35												.30	.30	.70			4.25
Quicksand[2]..... K					.57	.71					.36	.58			.27												1.01		.65		5.15
Ravenna, Lock No. 12[2]..... K					1.97	.34				T.	T	.27	.18			.18											.22	.32		1.24	.12	4.84
Richmond..... K				2.10	.10				.10	.20	.70			.10												.30	.10		1.20	.70	5.60
Valley View, Lock No. 6[2]..... K					1.93						.15	.51	.31			.04											.43	.09		1.14		4.60
Vanceburg, Dam No. 32[2]..... O					1.83	.51					.16	2.51	.32			.16			T.	.04						T.	.12	.24		.80	.19	6.88
Williamsburg[2]..... K					.09	.71	1.40				.31		.22			.12											.48		.97	.08	4.38
Willow, Lock No. 13[2]..... K					2.00	.61					.08	.76	.16	.08		.18											.16		.29	1.39	T.	5.51
Winchester..... K				.28	2.02	T				T.	.06	.80	.01		.18		T.	T.								.09	.16	.08	.62	.68	T	4.88

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [3]Precipitation measured with recording gage. [4]Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for March, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	44	50	55	49	72	66	57	68	63	61	78	71	57	69	64	42	39	39	60	68	67	74	82	82	80	74	62	52	61	60	66	62.3
	Minimum	30	26	24	33	48	39	26	34	50	40	55	39	34	36	40	29	27	25	23	49	32	46	44	47	53	58	43	37	42	40	36	38.5
Calhoun	Maximum	51	52	62	55	73	52	50	75	71	65	82	82	60	75	71	50	49	48	43	72	74	80	90	89	83	79	63	57	74	66	73	66.5
	Minimum	28	28	36	42	39	40	26	34	51	40	54	38	35	42	38	27	26	31	32	25	30	45	41	48	51	56	42	37	41	38	34	37.9
Earlington	Maximum	43	45	57	54	71	66	53	69	69	65	77	76	71	71	67	45	44	41	61	68	70	76	84	84	82	79	53	52	63	62	68	64.2
	Minimum	28	28	36	42	39	40	26	35	53	42	56	54	41	37	38	28	25	24	28	50	31	48	45	48	56	53	44	38	43	40	37	39.6
Greenville	Maximum	44	46	57	55	74	66	56	69	64	65	77	78	60	70	65	45	41	40	60	70	69	75	84	82	80	75	60	50	63	61	68	63.4
	Minimum	26	24	22	41	46	33	22	31	49	39	58	37	34	33	37	25	20	22	21	45	29	42	45	51	54	55	43	33	41	39	36	36 4
Henderson	Maximum	40	49	56	51	69	61	58	65	59	62	74	70	60	68	62	40	38	40	57	64	65	76	83	82	79	72	60	53	56	54	64	60.9
	Minimum	27	26	27	43	47	38	28	34	46	39	55	38	37	47	36	27	26	23	22	51	29	45	49	58	61	57	43	37	41	39	33	89.0
Hopkinsville	Maximum	46	51	57	70	74	51	60	70	69	63	78	58	63	71	60	48	44	45	63	69	68	77	84	83	80	75	68	55	68	60	70	64.6
	Minimum	27	26	25	35	43	37	26	37	36	41	42	53	39	34	40	27	25	26	25	42	35	40	41	43	51	56	52	39	41	40	39	87.5
Lovelaceville	Maximum	43	49	57	58	67	54	58	67	67	63	73	73	61	67	66	49	47	46	63	69	79	83	83	77	79	66	54	58	60	67	66	63.5
	Minimum	27	27	24	43	48	35	26	34	48	42	57	41	36	34	37	28	26	28	28	50	32	40	45	53	57	49	41	41	41	36	37	38.3
Mayfield	Maximum	43	48	56	54	69	65	58	65	66	61	72	72	59	68	65	46	43	46	64	65	69	79	88	80	78	72	64	57	63	62	69	63.3
	Minimum	26	26	28	41	48	36	30	37	46	41	54	39	37	40	37	27	28	24	29	48	34	45	55	51	57	56	47	40	43	40	39	39.5
Murray	Maximum	46	48	56	52	70	65	59	69	69	60	76	74	69	69	63	45	45	45	65	68	68	78	84	78	81	78	60	56	63	64	68	63.9
	Minimum	27	27	28	43	52	36	32	32	38	48	47	42	47	40	40	32	30	25	45	38	43	46	53	49	50	58	43	43	45	43	40	40.6
Owensboro	Maximum	42	56	56	58	70	52	56	70	47	63	74	60	50	62	60	45	45	35	57	52	64	76	79	81	77	77	64	52	57	57	61	59.8
	Minimum	27	25	26	42	42	36	27	42	43	37	53	36	35	36	36	27	25	22	23	47	32	42	42	49	51	54	40	37	39	38	35	37.0
Paducah	Maximum	44	50	58	54	69	65	60	68	66	63	75	70	61	70	65	49	47	46	64	70	70	81	85	82	80	74	62	59	60	58	70	64.4
	Minimum	28	27	26	43	49	36	27	36	45	42	57	41	38	41	37	29	28	28	29	50	33	44	52	49	50	57	43	39	44	42	38	39.9
Paducah (near)	Maximum	44	50	58	54	69	65	60	68	66	63	75	70	61	70	65	43	47	46	64	70	70	81	85	82	80	74	62	59	60	58	70	64.4
	Minimum	28	27	26	43	49	36	27	36	45	42	57	41	38	41	37	29	28	28	29	50	33	44	52	49	50	57	43	39	44	42	38	39.9
Princeton	Maximum	45	49	60	55	71	63	58	71	66	66	77	72	66	71	64	46	42	42	64	70	70	78	83	83	81	75	64	57	62	60	68	64.5
	Minimum	27	26	26	43	49	35	27	33	46	42	56	42	40	35	39	28	26	24	26	50	34	43	44	46	53	59	45	37	44	41	40	38.9
Russellville§§	Maximum	38	45	51	63	72	51	49	68	57	62	72	58	68	..	44	34	40	38	54	54	61	67	63	79	73	63	58	51	60	56	64	*57.0
	Minimum	27	27	24	32	42	38	25	29	38	40	40	53	30	40	..	27	26	25	23	30	32	34	44	42	56	55	55	38	39	42	40	*36.4
Central Division.																																	
Anchorage	Maximum	52	45	53	50	72	64	54	66	62	58	68	67	59	68	..	46	44	39	56	61	62	68	82	82	81	68	60	52	54	55	61	60.2
	Minimum	28	24	21	34	48	30	24	31	42	38	48	38	29	33	..	26	23	20	18	42	26	35	37	47	46	46	38	36	37	39	38	34.1
Bowling Green	Maximum	48	49	55	53	75	70	57	70	71	65	80	67	72	70	63	49	46	44	61	67	69	77	84	84	82	74	62	54	60	60	67	64.4
	Minimum	31	29	27	40	51	41	29	36	48	45	60	37	35	38	44	29	27	28	24	45	35	47	44	49	54	55	47	40	43	41	42	39.8
Danville	Maximum	50	46	54	51	75	71	54	68	69	61	76	70	55	72	67	51	45	43	56	66	66	68	80	83	80	75	65	46	54	59	61	62.5
	Minimum	31	25	24	38	46	41	28	32	49	37	47	39	33	31	41	26	25	24	16	50	28	49	36	55	53	49	40	32	41	40	36	36.5
Dix Dam	Maximum	55	46	55	52	75	65	66	68	68	61	76	70	56	71	68	50	44	41	46	56	67	68	81	84	81	76	62	60	50	58	60	62.5
	Minimum	34	26	25	40	51	29	31	30	50	39	50	43	35	32	43	25	27	25	19	31	31	45	37	49	49	50	45	40	38	42	40	37.1
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	28	26	24	47	45	41	23	35	48	37	45	38	28	31	40	26	22	25	17	36	29	44	45	40	47	52	40	37	39	45	36	36.1
Frankfort	Maximum	48	46	58	52	75	69	56	66	67	57	70	65	59	70	64	44	40	40	55	68	63	67	88	84	79	76	65	52	52	50	59	61.3
	Minimum	33	24	22	38	47	39	28	30	51	37	41	43	33	30	43	26	27	19	17	49	29	40	53	43	42	51	40	36	37	40	38	35.7
Glasgow	Maximum	54	48	55	56	70	69	56	67	69	69	76	75	58	69	69	51	43	42	58	64	64	72	79	78	80	77	69	51	55	61	62	63.4
	Minimum	30	28	24	39	48	38	25	31	49	41	55	44	36	32	42	26	22	26	20	45	32	44	38	42	48	48	44	38	43	41	40	37.4
Greensburg	Maximum	48	49	56	55	73	72	55	70	70	64	77	75	60	71	67	48	43	40	59	67	67	72	80	81	82	75	71	50	59	59	68	64.0
	Minimum	30	25	22	40	45	40	23	30	47	39	50	38	32	29	39	25	21	24	17	46	29	40	34	41	45	51	40	36	38	39	38	35.8
Irvington	Maximum	43	45	53	49	72	67	54	66	62	63	75	72	66	67	61	41	37	38	57	67	65	70	80	81	79	73	61	50	55	56	65	60.6
	Minimum	30	26	28	43	49	36	29	32	51	40	54	37	35	38	39	26	26	25	24	47	31	47	46	54	53	58	40	31	29	39	39	38.7
Leitchfield	Maximum	43	46	53	50	72	65	56	66	65	62	78	69	56	69	62	42	39	38	58	68	67	72	81	84	80	71	61	48	59	57	65	61.3
	Minimum	29	26	27	41	48	37	28	33	50	39	54	37	34	36	38	26	26	22	15	45	32	42	47	52	55	55	40	37	40	39	37	37.9
Lexington	Maximum	46	45	52	50	73	58	54	65	66	60	71	62	57	70	65	43	39	38	53	65	62	66	81	82	78	67	61	50	55	57	59	59.4
	Minimum	30	28	28	41	47	30	27	30	37	35	49	36	33	37	32	25	28	21	18	35	28	40	42	51	53	58	37	36	35	39	37	35.1
Louisville	Maximum	42	45	53	50	72	51	52	65	58	57	69	69	56	69	65	41	37	36	56	61	63	67	81	81	79	69	59	49	58	52	62	58.7
	Minimum	30	26	31	43	47	34	32	34	41	39	51	37	35	41	34	28	24	25	21	38	32	49	46	54	58	58	40	37	37	38	39	38.4
Do. Bowman Field	Maximum	43	46	53	50	73	44	51	66	60	60	70	66	58	69	68	41	37	36	56	61	68	66	81	81	80	70	59	49	53	50	62	58.6
	Minimum	29	26	27	41	48	32	29	33	40	40	52	38	32	38	34	28	28	24	22	38	30	46	43	54	53	57	39	37	38	39	39	37.2
Mammoth Cave	Maximum	46	45	55	49	75	69	55	69	68	61	78	70	59	71	63	44	38	40	58	62	65	71	80	83	80	72	60	50	59	61	68	62.2
	Minimum	29	24	19	39	46	38	21	29	47	38	58	35	34	28	38	25	21	22	16	43	27	40	38	40	49	55	38	39	39	38	36	35.0
St. John	Maximum	47	45	53	52	72	69	56	66	68	60	77	74	56	68	68	48	42	42	58	57	69	65	71	82	82	80	76	68	49	53	56	63	62.6
	Minimum	28	23	23	39	46	37	24	29	48	37	51	33	33	36	30	24	24	21	19	44	28	40	39	48	47	54	39	36	40	37	37	35.6
Shelbyville	Maximum	44	43	51	49	70	68	51	61	60	58	62	69	54	67	63	44	38	38	53	62	61	65	79	82	77	72	64	47	51	51	57	58.4
	Minimum	30	20	23	35	44	36	26	29	47	35	45	40	30	36	38	23	23	19	17	45	26	39	38	48	48	51	36	33	35	37	36	34.5
Smith's Grove	Maximum	55	51	56	51	75	67	58	68	68	66	78	68	60	70	62	45	44	42	58	65	66	74	80	82	78	72	60	52	61	58	69	68.0
	Minimum	31	27	26	41	50	38	26	35	45	40	54	38	37	36	39	25	24	25	23	46	32	40	42	46	51	56	41	38	42	41	39	37.9
Stearns	Maximum	50	48	57	48	70	57	63	67	70	60	72	65	58	65	62	42	45	46	56	55	68	70	76	80	76	66	63	47	59	58	60	60.2
	Minimum	30	29	27	38	45	44	28	38	45	40	47	40	36	33	40	28	23	28	26	41	34	34	40	47	58	55	47	38	42	41	38	38 0
Taylorsville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamstown	Maximum	50	42	55	49	69	68	48	67	61	53	59	65	56	70	70	55	44	36	52	60	61	63	81	84	82	78	65	56	60	58	60	60.2
	Minimum	31	21	26	48	45	35	22	27	49	32	44	44	30	34	43	25	23	18	16	45	21	40	37	51	54	52	36	33	33	39	35	35.2
Eastern Division.																																	
Annville	Maximum	66	45	47	52	60	74	53	53	62	69	55	74	62	58	70	61	49	48	39	58	62	64	67	79	80	79	70	61	47	60	52	60.2
	Minimum	29	28	23	26	42	43	23	34	46	38	40	52	36	29	33	27	21	27	15	25	29	33	31	34	41	42	55	38	28	39	38	34.1
Ashland	Maximum	45	44	55	56	78	71	53	64	67	58	55	62	55	67	65	50	40	34	50	63	63	60	80	83	79	72	64	47	50	62	54	59.1
	Minimum	37	25	22	32	46	47	29	31	45	32	42	49	35	31	46	30	27	22	17	42	28	37	30	38	45	45	42	36	34	43	39	35.6
Berea	Maximum	63	46	53	54	78	52	53	67	68	61	75	68	53	70	65	48	41	37	55	65	65	66	79	82	78	68	65	45	56	60	59	60.9
	Minimum	32	26	27	32	41	41	28	35	46	36	40	36	35	32	41	26	25	25	17	35	29	49	39	45	54	58	42	37	36	41	37	36.2
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	63	46	52	52	72	73	53	66	62	53	61	61	55	70	52	53	38	39	53	61	63	64	80	80	81	79	69	47	48	52	59	4
	Minimum	33	24	21	32	47	43	29	59	44	32	42	48	35	26	41	28	26	21	15	46	38	39	30	37	41	42	46	37	32	41	38	36.8
Heidelberg	Maximum	58	47	58	53	78	73	55	68	70	60	76	72	58	68	69	52	43	39	55	66	66	68	81	83	79	70	62	56	48	52	61	62.2
	Minimum	31	30	22	36	45	47	26	33	44	37	48	46	38	30	47	30	24	20	17	45	28	34	31	39	43	43	53	40	37	45	41	36.7
Maysville	Maximum	51	46	53	52	72	70	50	64	62	53	63	68	54	70	66	47	39	35	52	61	59	69	79	82	78	68	65	50	48	53	57	58.7
	Minimum	35	25	21	33	45	44	29	30	45	32	44	44	36	32	47	28	28	20	16	45	26	38	32	41	44	46	46	36	41	39	36	4
Middlesboro	Maximum	..	..	..	54	72	72	54	67	72	60	66	67	59	69	65	45	49	42	53	54	66	71	79	81	..	75	65	60	61	57	58	*62.7
	Minimum	..	..	..	38	44	50	27	35	45	36	47	46	38	30	43	31	24	29	20	45	27	33	32	38	..	42	52	41	44	47	41	*38.0
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	63	50	58	59	74	74	58	72	72	65	75	68	68	75	65	49	48	41	52	68	56	69	82	83	80	75	67	60	58	62	66	64.4
	Minimum	39	33	25	41	48	48	29	36	39	38	48	51	39	33	47	34	28	30	22	38	31	38	32	41	42	44	50	43	41	49	42	38.7
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	35	29	23	35	46	46	27	34	45	36	46	52	37	29	45	30	25	29	20	43	23	41	32	45	45	45	47	42	42	49	40	37.5
Quicksand	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	30	25	21	33	45	44	26	31	42	37	46	41	35	..	..	28	23	24	17	46	27	31	23	36	39	40	46	39	33	42	38	4
Richmond	Maximum	44	46	56	55	72	50	52	65	67	55	72	60	55	70	53	45	40	38	55	64	65	66	80	82	77	68	62	47	55	50	60	58.8
	Minimum	32	28	32	42	46	42	30	34	50	27	50	52	35	35	46	27	26	25	20	40	30	45	42	55	60	55	56	38	37	42	38	39.3
Williamsburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	32	32	28	38	40	40	27	35	44	38	37	38	38	37	37	30	28	27	19	29	31	37	37	41	49	50	47	46	42	34	32	35.8
Winchester	Maximum	45	44	56	50	72	65	52	64	65	58	70	67	54	69	63	42	38	37	54	65	61	64	80	81	75	69	62	46	48	60	58	59.2
	Minimum	33	24	28	41	46	36	28	32	32	34	48	39	33	33	40	25	26	23	19	46	27	43	39	47	53	54	40	36	35	40	38	36.1

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*, *, * etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 4-25-39-1100

51.08
NTE
1.49
0.4

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., APRIL, 1939 No. 4

UNIVERSITY OF KY. LIBRARY
MAY 5 1939

GENERAL SUMMARY.

Except for short periods of warmth in the third and last weeks, abnormally low temperature prevailed. In the first half night temperatures frequently fell below freezing, and only cold weather vegetation made any progress. Fruit buds that had opened prior to this cold weather were generally destroyed. Peaches suffered extensive damage in all sections, but were practically all killed in the central and eastern counties. In the extreme western part of the State half or more of the buds were frozen. Early gardening remained at a standstill and cool weather vegetables made but little growth. Rainfall much heavier than the average prevented most outdoor work until late in the month. Heavy to excessive rains early in the third week damaged hillsides and bottom land crops in the northeastern counties. Flooding that resulted from these rains covered much bottom land along the Ohio River, and its tributaries from the Green westward. Some of these bottoms remained flooded at the end of the month. This overflow rendered the plowing of the inundated districts impossible in this month. The wet weather largely prevented the planting of potatoes, the making of gardens, and the sowing of oats at the proper time. On account of the extension of unfavorable conditions far past the time of sowing oats, this crop was much reduced. Early gardening and potato planting were completed in the last decade, after the passing of the rainy period.

Even in the cool weather wheat, rye, barley, and pastures grew slowly on the well drained uplands. These crops developed very irregularly or deteriorated on the flat lands and heavy soils. As drainage improved toward the end, there was general improvement in the condition of winter grains and forage crops. Wheat was so retarded by the cold weather that it did not joint until late in the month, hence suffered no injury from the freezes. Tobacco plants were backward in coming up and grew very slowly until the increased sunshine of the last decade. This period of favorable weather enabled farmers and gardeners to partly overcome the handicap of the wet and cold of the first two decades; but all activities were a week to two weeks behind as the month closed. A mere beginning had been made in planting corn at the end.

TEMPERATURE.

Temperatures averaged 10° to 15° below normal in the periods 5-8th and 18th-21st. They were 10° to 20° below the seasonal means from the 11th to 13th, when the coldest weather occurred. Minimum temperatures ranged from 22° to 30° over the State, with the coldest areas in the central and northeastern portions. Temperatures fell to freezing or lower on several days in the first two weeks. Maxima of 75° to 85° were registered on a few days near the end. Extremes for the State were 91° at Calhoun on the 24th and 21° at Annville on the 13th.

PRECIPITATION.

Precipitation averaged about fifty per cent greater than the normal amount for this month. Measurable amounts were reported on all except four days. Moderate to heavy rains occurred on the 1st, 5-7th, 11-12th, and 25-27th. The rain was heavy to excessive in most districts in the period 13-17th. Light to moderate showers occurred almost daily in the first three weeks. In most districts the 16th was the day of heaviest rainfall, when many stations reported 24-hour falls of two to four inches. A considerable area in the western division and along the upper Ohio received from 7.0 to 8.0 inches. Other northern districts and the area southward across the central part of the State received from 5.0 to 7.0 inches. Stations in the southeastern mountain counties reported from 3.0 to 5.0 inches. For the State precipitation varied between 2.77 inches at Williamstown and 9.43 inches at Paducah. From a trace to 1.0 inches of snow fell in the northeastern counties, mostly on the 7th. Dates with thunderstorms were: 5, 10, 11, 14, 15, 16, 17, 25, 26, 27, 28.

MISCELLANEOUS.

April 15.—A boy was killed by lightning on the open porch of his home at Crofton, Christian County.

Rivers:—A moderate rise early in the month brought flood stages to the extreme lower Ohio on the 10th. A new rise that began on the 15th, building on the relatively high river, caused flood stages at all stations along the north border of the State by the 18th. Some crests were: Cincinnati, 58.1 ft., 19th; Louisville, 34.6 ft., upper gage, 60.6 ft., lower gage, 20th; Evansville, 43.4 ft., 24th; Cairo, 50.5 ft., 25th. The river was above flood stage below Evansville at the end of the month. The Green was somewhat above flood stage in its lower course from the 18th to the end of the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	29.99	30.60	13	29.46	17	10.0	35	n.	6	61	76	54	52
Cincinnati ..... Ohio	29.98	30.61	13	29.55	1	9.4	32	sw.	10	50	73	54	57
Evansville..... Ind.	29.99	30.62	13	29.51	17	10.6	38	sw.	17	54	72	53	53
Louisville ..... Ky.	29.98	30.61	13	29.56	17	11.7	36	s.	17	53	72	57	52

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Precipitation		Number of days			
	†Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	57.0	89	24	1.61	....	..	..	..	..
1890	57.0	92	28	4.04	....	..	..	..	..
1891	58.0	92	24	2.52	....	..	..	..	..
1892	56.0	88	22	7.12	....	..	..	..	..
1893	58.0	94	21	6.99	....	..	..	..	..
1894	56.0	94	23	3.54	....	..	..	..	..
1895	57.2	94	22	3.18	....	9	13	8	9
1896	63.6	96	24	1.65	....	6	13	12	5
1897	55.5	90	25	6.03	T.	11	11	9	10
1898	52.4	86	19	3.38	1.1	9	12	8	10
1899	57.2	96	20	3.16	0.3	9	13	8	9
1900	56.2	90	15	2.15	T.	8	14	8	8
1901	50.9	91	23	4.01	2.6	10	11	5	14
1902	54.2	93	22	2.65	0.1	9	14	9	7
1903	55.4	90	22	4.43	T.	12	10	7	13
1904	50 8	85	16	2.83	1.7	11	10	7	13
1905	56.7	91	23	3.00	0.2	9	12	8	10
1906	59.5	94	23	1.40	0.0	6	17	7	6
1907	48.2	87	19	2 78	0.2	11	10	5	15
1908	59 8	89	23	6.56	0.8	14	12	6	12
1909	56.1	96	21	5.98	T.	10	14	7	9
1910	55.4	88	23	5.14	0.7	14	12	6	12
1911	53.8	90	20	7.06	T.	14	11	5	14
1912	58.4	87	25	7.90	T.	12	11	7	12
1913	55.3	89	27	2.73	T.	10	14	5	11
1914	55.7	91	13	3.62	T.	10	11	8	11
1915	60.1	96	17	0.96	0.0	5	17	8	5
1916	54.0	89	23	2.64	1.4	9	11	8	11
1917	55.8	90	19	5.02	0.5	8	14	7	9
1918	53.9	87	25	4.07	0.3	12	8	8	14
1919	56.7	89	19	3.51	0.0	10	13	7	10
1920	50.8	89	22	6.16	0.2	13	9	8	13
1921	58.2	90	22	4.09	T.	10	15	7	8
1922	59.5	88	25	4.25	0.0	10	14	8	8
1923	54.8	90	13	4.88	0.0	9	15	6	9
1924	57.4	93	19	3.41	0.1	10	13	7	10
1925	61.2	98	23	3.16	0.0	10	14	7	9
1926	51.6	87	16	3.17	T.	10	13	7	10
1927	58.7	92	22	6.39	T.	15	10	8	12
1928	52.9	83	21	4.20	0.6	11	11	9	10
1929	60.1	90	23	3 57	0.0	10	14	8	8
1930	58.9	94	21	1.31	0.0	6	16	8	6
1931	55.9	89	25	4 52	0.1	8	15	6	9
1932	56.4	86	25	3.88	T.	10	13	6	11
1933	55.7	87	27	4.74	0.0	13	14	7	9
1934	56.9	90	24	2.16	T.	8	13	10	7
1935	55.3	92	24	4.42	T.	12	10	6	14
1936	58.1	90	19	4.79	0.1	11	11	8	11
1937	55.9	91	22	4.38	0.0	12	11	8	11
1938	59.3	91	22	2.85	T.	9	14	8	8
1939	53.7	91	21	6.07	T	13	11	8	11
Period	56.1	98	13	4.00	0.3	10	13	7	10

†51-year averages.

Climatological Data for April, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Western Division.																			
Beaver Dam	Ohio	441	27	54.8	− 1.1	83	24	26	13	31	5.50	+1.38	1.79	0	12	10	9	11	sw	Eldred G. Young.
Calhoun	McLean	437	35	58.4	0.0	91	24	26	7†	43	6.84	+2.42	3.21	0	12	10	10	10	.....	R. C. Bennett.
Earlington	Hopkins	420	45	56.6	− 1.2	83	24†	28	7	37	7.80	+3.70	2.00	0	13	14	7	9	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	6.89	+3.45	2.15	0	13	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	8.10	.....	2.87	0	11	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	63.0	− 4.3	85	24	24	7	38	6.57	+2.21	1.45	0	14	11	16	3	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	6.69	.....	1.59	0	15	10	11	9	w.	W. R. Carson, Sr.
Henderson	Henderson	382	17	63.4	.....	79	26	24	7†	33	7.30	+3.80	1.99	0	10	13	11	6	nw.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	55.0	− 2.6	87	25	27	7	38	6.52	+2.21	2.10	0	12	17	11	2	s	W. K. Morris.
Lovelaceville	Ballard	479	10	56.0	− 1.9	79	24	25	7	38	9.25	+5.46	2.70	0	9	11	12	7	s.	Blaine Malone.
Mayfield	Graves	364	30	55.4	− 2.9	79	24†	26	7	31	7.68	+3.42	2.80	0	13	11	13	6	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	*56.4	− 1.1	82a	24	28	7	31a	6.93	+2.92	1.97	0	8	7	20	3	s.	Pat W. Wear.
Owensboro	Daviess	420	42	52.8	− 2.9	80	24	25	7†	39	5.56	+1.60	1.71	0	12	8	1	21	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	6.23	+3.75	2.10	0	14	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	55.8	− 3.2	83	24†	30	7†	27	9.43	+4.88	3.34	0	10	12	7	11	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	56.8	− 2.9	81	24	26	7	34	6.90	+2.48	2.38	0	9	15	9	6	.....	Joe Lagore.
Princeton	Caldwell	529	32	.....	.....	83c	23	27c	7	41c	.....	.....	1.65	0	.....	.....	.....	.....	.....	Dr. W. L. Cash.
Rumsey, Lock 2	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	7.99	+3.85	3.02	0	13	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	*51.6	− 5.8	79	24	27	7†	29	4.30	−0.50	1.77	0	11	12	4	14	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	6.28	+2.83	1.81	0	12	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	852	11	.....	.....	.....	.....	.....	.....	.....	6.25	+2.56	1.86	0	15	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	51.1	− 2.7	79	24	22	13	37	4.84	+1.04	1.34	T.	10	13	4	13	se.	C. E. Barret.
Bowling Green	Warren	500	43	57.0	− 1.5	87	24	29	13	36	5.24	+1.90	1.17	0	11	12	10	8	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	7.05	+2.69	2.39	0	11	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	4.73	+0.63	0.90	0	17	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	5.99	+2.34	2.13	0	7	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	7.31	+3.65	2.83	T.	16	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	53.6	.....	84	24	23	13	39	5.90	+2.07	1.07	T.	16	12	4	14	sw	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	5.34	.....	0.71	0	15	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	.....	.....	.....	4.66	+0.62	1.17	0	7	6	8	17	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	52.8	− 2.9	83	24	23	13	42	6.84	+3.08	1.56	T.	13	9	7	14	w.	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	5.68	+1.94	1.55	0	15	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	53.4	− 4.8	82	24†	27	13	40	6.97	+2.68	1.53	0	13	9	21	0	s.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	7.21	+3.87	3.20	0	12	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	53.2	− 2.3	84	24	22	13	44	6.19	+2.30	1.50	0	15	8	0	22	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	644	37	.....	.....	.....	.....	.....	.....	.....	5.71	+2.20	1.48	0	17	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	54.5	− 1.7	81	24	27	12†	31	6.44	+2.48	2.69	T.	13	11	4	15	sw.	W. J. Piggot.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	5.02	.....	1.67	T.	16	8	18	4	sw.	E. P. Johnson.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	6.58	+3.73	1.95	0	13	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	54.0	− 1.9	83	24	26	7†	33	6.67	+2.41	1.51	0	13	10	15	5	sw.	H. H. Willis.
Lexington	Fayette	989	55	52.0	− 2.8	84	24	23	13	34	6.46	+2.96	1.60	0.3	17	11	5	14	.....	U. S. Weather Bureau.
Little Hickman, Lock 5	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	6.17	+2.77	1.10	0	12	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	6.20	+1.47	1.64	0	7	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	53.2	− 3.2	81	24	25	12	29	4.96	+1.08	1.54	T.	15	11	5	14	s.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	54.6	.....	82	24	27	13	34	5.24	.....	1.46	T.	13	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	53.0	...	82	24†	22	13	45	6.86	.....	1.29	0	17	10	8	12	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	5.63	.....	1.20	0	14	15	6	10	.....	E. O. Cooper
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	5.44	+1.67	1.10	0	10	.....	.....	.....	.....	Mrs. M. W. Price.
St. Jonn	Hardin	777	43	53.3	− 1.4	80	24	23	13	40	7.26	+3.04	2.39	T.	14	11	5	14	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	7.49	+3.81	2.25	0	11	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	60.8	− 3.8	79	26	22	13	34	6.14	+2.23	1.66	0	13	8	0	22	sw.	Willa S. Ratta.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	7.86	.....	3.62	0	12	10	17	3	w.	A. McLeod.
Smith's Grove	Warren	607	1	54.1	.....	82	24	26	13	39	6.09	.....	0.97	0.2	14	8	8	14	sw.	Airway Station.
Stearns	McCreary	1400	8	54.2	.....	82	26	26	8†	37	3.76	.....	0.97	0	15	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	.....	.....	80a	24	26a	13	.....	7.75	+3.80	3.15	0	8	3	20	7	sw.	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	7.34	+3.35	2.40	0	12	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	53.0	− 0.6	82	24	23	7†	38	6.71	+3.27	2.80	0	12	12	0	18	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	6.60	+2.48	2.04	0	9	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	50.4	...	84	25	21	13	39	3.81	.....	0.66	T.	15	7	15	8	sw.	W. A. Worthington.
Ashland	Boyd	534	22	62.8	− 2.8	85	24	25	13	44	7.62	+4.02	2.45	T.	15	10	6	14	sw.	Lockmaster.
Berea	Madison	1070	36	52.9	− 2.9	84	25	22	12	37	6.56	+2.91	1.76	T.	16	12	5	13	w.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	20	.....	.....	.....	.....	.....	.....	.....	5.82	+2.60	0.90	0	16	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1430	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Bertrand Fields.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	4.67	+1.01	1.70	1.0	8	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	8.78	+5.10	2.96	T.	14	.....	.....	.....	.....	J. V. Oldham.
Farmers	Rowan	668	32	51.3	− 3.2	84	24†	22	13	48	5.60	+1.90	1.10	T.	13	10	6	14	w.	Mrs. Lillie C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	6.58	+2.69	1.72	0	13	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	28	.....	.....	.....	.....	.....	.....	.....	6.3e	+2.13	1.18	0	14	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	5.25	+2.23	2.30	0	9	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	8.80	+5.11	4.41	0	19	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	4.18	+0.89	0.85	0	13	.....	.....	.....	.....	H. A. Sally.
Heidelberg, Lock 14	Lee	663	4	53.0	.....	82	26	24	8†	42	4.54	+1.22	0.72	0	15	9	3	18	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	3.55	.....	1.05	0	9	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	3.48	−0.36	0.80	0	18	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	4.94	+1.60	1.32	0	13	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	41	52.0	− 2.3	82	24	24	13	40	8.58	+5.01	3.32	0.7	18	7	13	10	sw.	Lockmaster.
Middlesboro	Bell	1128	40	*56.6	− 0.2	86g	26	28g	5	41	3.81	−0.67	0.85	0	14	13	13	4	.....	Matthew Woodson
Mount Sterling	Montgomery	926	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	860	2	.....	.....	.....	.....	.....	.....	.....	3.67	.....	1.03	0	7	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	8.53	+4.59	3.15	0.2	19	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	4.85	.....	0.91	0	16	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	3	55.5	.....	90	24	28	13	49	3.67	+0.09	0.76	0	18	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	3	.....	.....	.....	.....	24	8	.....	3.10	.....	1.10	0	9	16	6	8	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	53.6	− 8.2	88	4†	23	8†	50	3.90	−0.33	0.81	0	10	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	681	20	.....	.....	.....	.....	.....	.....	.....	5.56	+2.45	0.71	0	16	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	53.6	− 2.5	83	24	27	13	36	5.25	+1.66	0.80	0	14	15	7	8	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	6.11	+2.88	1.10	0	15	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	8.43	+4.69	4.08	0	17	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	.....	.....	.....	25	13	.....	.....	2.77	−1.48	0.59	0	13	13	8	9	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	4.76	+1.99	0.71	0	14	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	.....	52.2	.....	81	24	25	7†	34	5.24	.....	1.35	T.	17	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	53.7	− 2.4	91	24	21	13	60	6.07	+2.07	4.41	T.	13	11	8	11	sw.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for April, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam..... G.	.49	....	....	....	.29	1.26	....	T.	....	....	.59	....	....	....	.06	1.79	.09	.05	.04	....	.42	....	....	....	....	.24	....	.18	....	....	....	5.60
Calhoun..... G.	.39	T.	....	....	.22	1.33	....	....	T.	....	.60	.02	....	....	T.	3.21	.39	.07	.05	....	.23	....	....	....	....	T.	....	.11	....	....	....	6.84
Earlington [2]..... G.	.56	....	.02	....	....	1.68	....	....	.03	....	.88	T.	....	....	....	2.00	1.09	.09	.06	....	.37	....	....	....	.22	.41	....	.44	....	....	....	7.99
Ferris Ferry Dam 60[2]..... O.	.36	....	.01	....	T.	1.51	....	....	.02	....	.37	T.	....	....	T.	2.15	1.70	.14	.02	....	.20	....	....	....	.03	.26	....	.12	T.	....	....	6.9
Gilbertsville[3]..... T.	.36	....	....	....	....	1.58	....	....	....	....	.67	....	....	....	....	2.87	1.70	.10	.03	....	.24	....	....	....	.11	.50	....	.04	....	....	....	8.10
Greenville..... G.	.48	T.	....	....	.25	1.35	....	.05	....	....	.60	....	....	....	.25	1.45	.10	.12	....	....	.50	....	....	....	1.04	.05	.03	.30	....	....	....	6.57
Hartford..... G.	.48	T.	....	....	.25	1.37	....	....	.03	....	.68	.01	....	T.	.01	1.59	.10	.10	.02	....	.36	....	....	....	.39	.12	....	.23	....	....	....	5.69
Henderson..... O.	.43	....	....	....	.54	1.42	....	T.	T.	....	.21	T.	....	....	T.	1.99	1.64	.28	....	....	.17	....	....	....	.15	....	T.	.47	....	....	....	7.30
Hopkinsville[3]..... C.	.18	....	....	....	....	1.58	....	....	.02	....	.65	....	....	....	....	2.10	.16	.10	....	....	.22	....	....	....	.70	.62	....	.18	.11	....	....	6.52
Lovelaceville..... M.	.15	....	....	....	1.70	....	....	....	....	.90	....	....	....	....	2.70	2.15	.90	....	....	.82	....	....	....	....	.81	....	....	.12	....	....	....	9.25
Mayfield..... M.	.07	T.	....	....	.31	1.72	....	T.	....	.65	....	....	....	....	.10	1.60	2.80	.15	.02	....	.85	....	....	....	.39	.01	T.	.01	....	....	....	7.68
Murray..... T.	....	....	....	....	.28	1.75	....	....	....	.70	....	....	....	....	1.80	1.97	....	....	....	.40	....	....	....	....	.48	....	.05	....	....	....	....	6.93
Owensboro [2]..... O.	.32	....	.07	....	....	1.71	....	....	T.	T.	.66	....	....	....	....	1.65	.55	.10	.07	....	.17	....	....	....	....	.21	....	.03	.02	....	....	5.56
Owensboro, Dam 46 [2]..... O.	.34	....	.07	....	....	2.10	....	....	.02	.01	.80	.01	....	T.	T.	1.60	.70	.05	.01	....	.17	....	....	....	....	.20	....	.15	....	....	....	6.23
Paducah[2]..... O.	.20	....	.02	....	T.	2.06	....	....	T.	....	1.12	T.	....	....	T.	3.34	2.06	.04	T.	....	.24	....	....	....	.06	.35	T.	T.	....	....	....	9.43
Paducah (near)[2]..... O.	.22	T.	....	....	1.93	....	T.	....	....	.34	....	....	....	....	1.16	2.38	.24	.03	....	.25	....	....	....	....	.86	....	....	....	....	....	....	6.90
Princeton..... G.	.36	.01	....	....	.28	1.45	....	.01	T.	T.	.60	....	....	....	.66	1.65	1.27	.08	.07	....	.28	....	....	....	....	....	....	....	....	....	....	....
Ramsey, Lock No. 2 [2]..... G.	.38	....	....	....	....	1.59	....	....	....	T.	1.55	.02	....	....	....	3.02	.70	.05	.06	....	.23	....	....	....	....	.20	.06	.12	.02	....	....	7.99
Russellville [3]..... K.	.18	....	....	....	....	1.17	....	....	....	....	.76	.04	....	....	....	.13	.34	....	....	....	.31	....	....	....	.15	1.09	....	.14	.03	....	....	4.89
Uniontown, Dam 49[2]..... O.	.34	....	.02	....	....	1.81	....	....	T.	T.	.16	T.	....	....	....	1.47	1.71	.20	.08	....	.21	....	....	....	T.	.08	....	.22	.03	....	....	6.23
Central Division																																
Addison, Dam 45. [2]..... O.	.36	....	.20	....	....	1.62	T.	....	.01	....	.54	.01	....	....	.05	1.86	.50	.10	.03	....	.37	....	....	....	....	.25	.33	T.	.02	....	....	6.25
Anchorage..... O.	....	T.	....	....	.29	1.34	....	....	T.	....	.50	....	....	.92	.03	1.08	.18	.04	....	....	.43	....	....	....	.03	T.	....	....	....	....	....	4.84
Bowling Green [2]..... G.	....	....	T.	....	....	1.00	....	....	....	....	.70	.10	....	....	....	.95	.50	....	....	....	.22	....	....	....	.10	1.17	.12	.35	.08	....	....	5.24
Brownsville, Lock No. 6[2]..... G.	.50	....	....	....	....	1.14	.01	....	.03	....	.72	T.	....	....	....	2.39	.65	T.	....	....	....	....	....	....	.12	1.05	.39	.05	....	....	....	7.05
Burnside[2]..... C.	.17	....	.07	....	....	.63	.09	....	.09	....	.26	.77	....	....	.05	.90	.50	....	.02	.03	.11	....	....	....	.04	.64	.34	....	.02	....	....	4.73
Carrollton, Lock No. 1[2]..... K.	.10	....	....	....	....	1.85	....	....	....	....	.65	....	....	....	.85	2.13	.14	....	....	....	.27	....	....	....	....	....	....	....	....	....	....	5.99
Cold Spring, Dam 56[2]..... K.	.10	.02	.10	....	....	1.30	.03	....	.04	.04	.85	T.	....	....	1.11	1.88	.32	T.	....	....	.28	T.	....	....	....	.04	.02	T.	.02	....	....	7.81
Danville[2]..... K.	.75	.16	.21	....	....	.81	T.	....	.15	.02	.54	.30	....	....	.11	1.07	.73	.05	....	....	1.20	....	....	....	....	.46	.23	....	.07	....	....	5.90
Dix Dam, Burgin..... K.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Endsville [2]..... C.	.18	.02	....	....	....	.64	.04	T.	.12	....	.40	.72	....	....	.06	.71	.41	....	....	....	.14	....	....	....	.19	.70	.37	....	.64	....	....	5.84
Eubank..... C.	....	....	.30	....	....	....	....	....	....	1.12	....	....	....	....	....	.56	.65	....	....	....	.16	....	....	....	....	.60	1.17	....	....	....	....	4.56
Frankfort, Lock No. 4[2]..... K.	.55	....	.02	....	....	1.38	T.	....	.16	T.	.64	....	....	....	1.04	1.55	.82	.24	.01	....	.32	....	....	....	....	.69	.11	....	....	....	....	6.84
Gest, Lock No. 3 [2]..... K.	.40	.07	.04	....	....	1.55	.02	....	.03	....	.63	....	....	....	.63	1.28	.50	.21	.03	....	.40	....	....	....	....	.05	T.	.04	....	....	....	5.68
Glasgow..... G.	.22	T.	....	....	.86	.01	....	....	....	....	.46	.83	....	....	T.	.85	.91	.01	....	....	.25	....	....	....	.47	1.53	1.04	....	.03	....	....	6.97
Grant, Dam 33[2]..... O.	.06	.03	.07	....	....	1.45	....	T.	T.	T.	.25	T.	....	T.	1.40	3.20	.38	.04	T.	....	.28	.01	....	....	T.	.04	T.	T.	....	....	....	7.21
Greensburg[2]..... C.	.55	....	.09	....	....	.70	.05	....	.12	....	.55	.36	....	....	....	1.07	1.50	.05	....	....	.26	....	....	....	.02	.01	.82	....	.04	....	....	6.19
High Bridge, Lock No. 7[2]..... K.	.56	.09	.04	....	....	.81	.04	....	.14	.01	.44	.09	....	....	.88	1.48	.51	.08	....	....	.29	.03	....	....	....	.29	.43	....	....	....	....	5.71
Irvington..... O.	.25	.27	....	....	.24	1.14	T.	....	....	....	.32	T.	....	.25	T.	2.66	.60	.08	T.	....	.33	....	....	....	.18	.16	.02	T.	....	....	....	6.44
LaGrange..... O.	.15	.02	T.	T.	.24	1.67	.02	....	.02	T.	.67	.01	....	.66	.02	.92	.18	.02	.02	....	.89	T.	....	....	.01	T.	....	....	....	....	....	5.02
Lancaster[2]..... K.	.32	....	....	....	.68	.10	....	.10	....	.65	.68	....	....	.15	1.95	.95	....	....	....	.12	....	....	....	....	.65	.42	.08	....	....	....	....	6.85
Leitchfield [2]..... G.	.70	T.	....	....	....	1.81	....	....	.03	....	.82	.02	....	....	....	1.32	1.07	.09	.02	....	.53	....	....	....	....	.40	.13	.03	....	....	....	6.67
Lexington [2]..... K.	.49	.03	....	....	.30	.60	....	.13	.01	T.	.56	....	....	....	.89	.18	1.60	.56	.07	....	.27	....	....	....	.20	.34	.01	.22	....	T.	....	6.46
Little Hickman, Lock No. 8 [2]..... K.	.81	....	.20	....	....	.71	....	....	.12	.40	.80	....	....	.30	....	1.16	.78	....	....	....	.20	....	....	....	.55	.03	....	....	....	....	....	6.17
Lockport, Lock No. 2 [2]..... K.	.41	....	....	....	....	1.64	....	....	....	....	....	....	....	....	.64	1.55	.85	.20	....	....	.41	....	....	....	....	T.	....	....	....	....	....	5.20
LOUISVILLE[1] [2]..... O.	.13	.03	....	....	.79	.75	....	.02	.02	.57	.07	....	....	.82	.04	1.10	.24	.02	....	....	.34	....	....	....	.02	T.	....	....	....	....	....	4.96
Do. Bowman Field..... O.	.20	T.	.02	....	....	1.46	.01	....	.01	.01	.59	T.	....	T.	.95	.92	.60	T.	.02	....	.42	....	....	....	....	.03	T.	....	....	....	....	5.24
Mammoth Cave[2]..... K.	.56	.05	.01	....	....	1.03	....	....	.03	....	.72	.05	....	....	.01	1.29	.82	.33	.05	....	.25	....	....	....	.24	.91	.48	.08	....	....	....	6.86
Monticello [2]..... K.	.21	....	.02	....	....	.77	.15	....	....	....	.71	.15	....	....	.29	.50	.68	.05	....	....	.15	....	....	....	.32	.16	....	1.20	....	....	....	5.03
Munfordville [2]..... G.	.56	....	....	....	....	1.06	T.	T.	T.	....	.62	T.	....	....	.04	1.04	.64	....	T.	....	.24	....	....	....	.09	1.10	.05	....	....	....	....	5.44
St. John [2]..... S.	.60	.02	.20	T.	....	1.44	....	T.	.03	....	.79	....	....	....	.23	2.39	.65	.05	.02	....	.56	....	....	....	....	.32	.07	T.	....	....	....	7.28
Salvisa, Lock No 6 [2]†..... K.	.60	....	.10	....	....	.98	T.	....	.16	....	.64	.06	....	....	.90	2.25	.60	....	....	....	.41	....	....	....	....	.23	.56	....	....	....	....	7.49
Shelbyville[2]..... S.	.35	....	.03	....	....	1.66	....	.13	T.	....	.47	....	....	....	1.01	1.29	.88	.17	.05	....	.50	....	....	....	....	.05	T.	....	.05	....	....	6.14
Shepherdsville..... S.	.31	T.	.35	....	....	1.34	....	.08	T.	....	.48	....	....	.54	....	3.82	.20	T.	.08	T.	.52	....	....	....	.10	.34	....	T.	....	....	....	7.86
Smith's Grove..... G.	.28	T.	....	....	.16	.81	.02	T.	....	....	.78	.01	....	T.	.97	.72	.59	T.	T.	....	.18	....	....	....	.79	.52	.06	.20	....	....	....	5.69
Stearns..... C.	.30	....	....	....	.09	.72	....	.10	.05	....	.97	....	....	.04	....	.10	.33	.10	....	....	.07	....	....	....	.57	.05	.25	.02	....	....	....	8.76
Taylorsville..... O.	.25	....	....	....	....	1.50	....	....	....	....	.45	....	....	....	1.00	3.15	.50	....	....	....	.50	....	....	....	....	.40	....	....	....	....	....	7.75
Tyrone, Lock No. 5 [2]†..... K.	.30	....	.08	....	....	1.03	....	....	.18	.03	.64	....	....	....	1.04	2.40	.75	T.	T.	....	.26	....	....	....	....	.16	.38	....	....	....	....	7.34
Williamstown [2]..... O.	.07	....	....	....	....	.70	.02	....	....	....	.30	....	....	....	1.30	2.80	.60	.30	.02	....	.50	....	....	....	....	....	....	.10	.20	....	....	6.71
Woodbury, Lock No. 4[2]..... G.	.40	....	....	....	....	1.49	....	....	.04	....	.70	....	....	....	....	2.04	.40	T.	....	....	.36	....	....	....	.04	1.02	....	.16	T.	....	....	6.60
Eastern Division																																
Annville [2]..... C.	.40	.10	.27	....	....	.66	.09	....	.05	....	.34	.65	....	....	.04	.33	....	.26	....	T.	.05	....	....	....	....	.34	.19	.04	....	....	....	3.81
Ashland [2]..... O.	.09	.39	....	....	.45	.46	....	.09	.01	....	.51	....	....	....	.39	2.45	1.33	.9	....	....	.02	....	....	....	....	.02	.33	....	....	....	....	7.82
Berea..... K.	....	.65	.05	....	.14	.70	....	.01	.03	....	1.25	....	....	.16	....	1.26	.88	.07	....	....	.10	....	....	....	.24	.16	.63	.17	....	....	....	6.56
College Hill, Lock No. 11[2]..... K.	.58	.22	.04	....	....	.65	....	....	.14	.05	.40	.34	....	....	.50	.90	.75	.08	....	....	.12	....	....	....	....	.36	.64	....	.05	....	....	5.82
Cumberland..... C.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cynthiana [2]..... L.	....	....	....	....	....	.61	.10	T.	....	....	.46	....	....	....	.69	1.70	.71	T.	....	....	.31	....	....	....	....	.09	....	T.	T.	....	....	4.67
Falmouth [2]..... L.	.12	T.	.08	....	....	1.67	.03	....	.05	T.	.46	T.	....	T.	1.34	2.96	1.19	.17	T.	....	.30	....	....	....	....	.09	T.	.27	.20	....	....	8.78
Farmers [2]..... L.	.62	....	....	....	....	.75	.07	.11	T.	....	.31	.28	....	.76	....	1.10	....	.22	....	....	.12	....	....	....	.10	....	.65	.47	....	....	....	5.60
Flemingsburg [2]..... L.	.56	.04	....	....	....	1.06	....	....	....	....	.36	....	.06	....	.56	1.72	.94	.52	....	....	.18	....	....	....	....	.13	.09	.16	....	....	....	6.58
Ford, Lock No. 10 [2]†..... K.	.60	.10	.08	....	....	.60	T.	....	.11	....	.39	.33	....	....	.74	1.18	.70	.27	....	....	.15	T.	....	....	....	.38	.80	....	T.	....	....	6.38
Grayson [2]..... O.	.35	....	....	....	....	.25	....	....	....	....	.20	.30	....	....	.60	2.30	.55	.40	....	....	....	....	....	....	....	.30	....	....	....	....	....	5.25
Greenup, Dam 30[2]..... O.	.04	.25	.05	....	....	.85	.35	....	.07	.04	.25	.18	.02	....	.87	4.41	.61	.55	....	....	.03	.05	....	....	.05	.42	.01	T.	....	....	....	8.60
Hazard [2]..... K.	.20	.10	.38	....	....	.45	.50	....	.10	....	.20	.65	....	....	....	.85	....	....	....	....	....	....	....	....	.43	.10	.10	.12	....	....	....	4.18
Heidelberg, Lock No. 14[2]..... K.	.48	.11	.10	....	....	.68	.16	....	.12	.02	.32	.72	....	....	.18	.29	....	.33	....	....	.08	T.	....	....	.45	.52	....	....	....	....	....	4.54
Jackson [2]..... K.	.52	T.	.18	....	....	.70	T.	....	.20	T.	1.05	....	....	....	.20	.25	T.	.18	....	....	T.	....	....	....	.30	T.	....	....	....	....	....	3.55
Jenkins [2]..... B.	....	.32	.10	....	....	.32	.52	....	.04	....	.08	.42	....	....	....	.80	....	....	....	....	.06	....	....	....	.35	.22	.18	.08	....	....	....	3.48
Louisa [2]..... B.	.21	.29	....	....	....	.88	.35	....	.18	.10	.24	.62	....	....	.22	1.22	....	.78	....	....	....	....	....	....	.05	.20	....	....	....	....	....	4.94
Maysville, Dam 33[2]..... O.	.01	.18	.08	....	....	1.18	.10	....	.08	T.	.47	.04	....	....	.54	3.82	.61	.72	.05	....	.20	.03	....	....	.05	.67	T.	.25	....	....	....	5.58
Middlesboro..... C.	.29	....	....	....	.04	.80	....	....	.07	....	.51	....	....	.02	....	.02	.42	.05	....	....	.18	....	....	....	.18	.25	.85	.08	....	....	....	3.81
Mount Sterling..... L.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Oneida [3]†..... K.	....	....	....	....	....	1.03	.34	....	....	.68	....	....	....	....	....	.46	.55	....	....	....	....	....	....	....	....	.31	.35	....	....	....	....	3.67
Onconta Dam 36 [2]..... O.	.07	.03	.15	....	....	1.42	.05	....	.02	.02	.59	T.	....	....	1.33	3.15	.45	.28	.03	....	.18	.03	....	....	.03	.04	.16	.50	T.	....	....	8.58
Paintsville [2]..... B.	.18	.30	.05	....	....	.36	.40	....	.16	.03	.15	.91	....	....	.31	.52	.04	.90	....	....	.02	....	....	....	.04	.04	....	....	....	....	....	4.25
Pikeville..... B.	.41	.05	.13	....	.02	.76	....	T.	.06	....	.70	.06	....	.26	T.	T.	.20	.33	.05	....	.03	....	....	....	.08	.12	.29	.20	.08	....	....	3.67
Pippapass..... K.	.40	....	....	....	....	1.10	....	....	....	....	.75	....	....	.08	....	.24	.17	....	....	....	....	....	....	....	.11	.15	.10	....	....	....	....	3.10
Quicksand [2]..... K.	....	.04	....	....	.81	....	.18	....	....	....	.57	.73	....	....	.24	....	.75	....	....	....	....	....	....	....	....	.06	.09	....	.11	....	....	....	3.90
Ravenna, Lock No. 12[2]..... K.	.48	T.	.18	....	....	.67	.16	....	.13	T.	.48	....	....	....	.29	.63	.12	.45	T.	T.	.11	.08	....	....	.36	.71	T.	.19	....	....	....	5.56
Richmond[2]..... K.	....	.05	....	....	.70	....	.15	....	.50	.50	....	....	.40	.80	.50	.30	.25	....	.10	....	....	....	....	....	.40	.50	.10	....	....	....	....	5.25
Valley View, Lock No. 9[2]..... K.	.62	.08	.03	....	....	.70	.04	....	.14	....	.32	.30	....	....	.55	1.10	.82	.69	....	....	.15	....	....	....	.48	.69	....	....	....	....	....	6.11
Vanceburg, Dam No. 32 [2]..... O.	....	.16	.05	....	....	1.09	.10	....	.09	.01	.43	.10	....	....	.38	4.08	.65	.75	....	....	.09	.08	....	....	.05	.84	....	.03	....	....	....	8.43
Williamsburg [2]..... C.	.11	.15	....	....	....	.59	....	....	.09	....	.16	.53	....	....	....	.46	....	....	....	....	....	.02	....	....	.02	.07	.27	.20	.08	....	....	2.77
Willow, Lock No. 13[2]..... K.	.71	.06	.16	....	....	.84	.08	....	.14	....	.84	.66	....	....	.26	.28	.04	.07	T.	....	T.	....	....	....	.51	.33	....	....	....	....	....	4.76
Winchester..... K.	.08	.01	.02	....	.07	.64	....	.03	....	....	.66	....	....	.70	.08	1.31	.40	.13	....	....	.14	....	....	....	.21	.07	.56	.10	....	....	....	5.24

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [3]Precipitation measured with recording gage. *Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for April, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	60	54	59	65	56	50	49	52	69	76	70	49	55	75	72	78	75	62	51	61	57	70	78	83	72	82	76	70	68	72	..	65.5
	Minimum	47	41	31	34	42	37	28	33	37	58	42	29	26	40	60	60	60	42	38	41	46	35	48	52	59	61	57	54	52	41	..	44.2
	Mean	70	64	68	74	66	58	54	56	76	83	76	63	63	80	78	81	86	72	54	69	65	77	85	91	90	83	83	80	77	80	..	73.5
Calhoun	Maximum	46	34	32	34	44	35	26	35	37	62	45	26	26	42	58	59	59	41	36	42	45	35	42	42	59	59	55	53	51	42	..	48.4
	Minimum	67	61	62	66	67	52	51	65	77	82	72	55	67	76	74	77	76	68	51	63	61	72	70	83	81	83	78	77	70	74	..	68.5
Earlington	Maximum	47	41	33	36	36	37	28	37	39	60	42	29	29	43	61	60	60	43	39	43	49	36	46	52	62	67	66	54	51	41	..	44.8
	Minimum	61	64	58	66	62	61	41	64	76	75	69	53	56	75	72	77	73	63	50	60	58	70	77	85	79	81	76	73	67	74	..	66.2
Greenville	Maximum	45	40	30	35	41	36	24	32	31	45	40	27	26	31	57	57	51	...	35	40	44	32	41	54	58	52	55	52	49	39	..	§39.9
	Minimum	61	58	60	66	50	49	48	62	65	65	66	50	66	70	68	72	66	56	60	60	55	71	78	81	67	79	78	63	68	74	..	63.2
Henderson	Maximum	46	37	38	34	42	36	24	35	37	59	40	26	26	42	59	60	56	39	36	41	45	38	49	53	59	51	52	54	50	48	..	43.5
	Minimum	64	62	60	67	68	57	49	57	77	75	60	48	56	75	72	79	67	63	53	63	62	70	80	85	87	81	75	69	67	76	..	67.1
Hopkinsville	Maximum	45	44	33	39	43	37	27	31	36	49	42	29	30	36	48	68	58	40	39	44	44	34	42	48	60	64	56	53	51	40	..	42.8
	Minimum	69	69	61	67	69	59	47	55	73	74	67	57	64	72	73	73	73	60	49	60	61	72	76	79	77	79	77	75	67	74	..	67.3
Lovelaceville	Maximum	47	47	37	40	46	37	25	34	36	69	42	30	36	42	60	59	54	42	35	44	34	41	50	60	55	66	65	60	40	..	..	44 6
	Minimum	66	65	63	66	63	60	48	57	71	72	62	66	62	73	71	73	70	59	55	61	62	70	76	79	75	79	79	72	67	74	..	66.7
Mayfield	Maximum	43	48	39	42	44	36	26	32	39	55	40	29	37	42	57	57	52	38	35	34	41	40	46	52	10	57	58	54	46	43	..	44.1
	Minimum	64	62	63	62	63	61	48	60	76	79	69	56	64	74	72	78	69	57	58	60	68	70	78	82	78	70	69	72	78	..	..	§66.8
Murray	Maximum	45	41	40	41	40	40	28	35	46	45	49	30	38	43	60	59	59	38	40	40	50	58	50	60	53	55	54	59	61	..	..	§46.1
	Minimum	62	49	67	64	62	46	48	60	68	69	52	44	53	72	70	74	63	52	59	60	55	73	77	80	79	79	76	68	68	72	..	63.4
Owensboro	Maximum	32	40	31	37	41	35	25	32	35	47	39	25	27	39	56	58	60	48	35	40	43	34	44	49	61	58	53	53	50	42	..	42.3
	Minimum	64	62	61	68	56	46	50	54	78	70	69	48	66	76	70	74	64	48	50	62	61	72	80	83	83	80	76	65	69	76	..	66.4
Paducah	Maximum	46	46	40	44	50	38	30	53	46	48	42	30	32	38	56	60	58	42	38	39	46	38	46	52	60	56	58	56	50	45	..	45.2
	Minimum	65	65	64	69	67	55	49	65	75	73	71	55	57	74	72	74	74	60	50	61	64	71	77	81	78	80	80	74	70	76	..	67.8
Paducah (near)	Maximum	46	46	35	40	45	37	26	34	41	59	42	29	36	41	60	59	54	40	34	38	44	37	47	53	61	55	56	56	47	41	..	44.8
	Minimum	63	62	63	69	65	64	51	64	78	78	68	51	56	77	75	76	72	62	50	65	61	73	83	..	..	..	..	..	..	..	..	.....
Princeton	Maximum	46	45	35	38	46	38	27	32	38	59	42	29	31	44	59	60	57	42	36	42	45	35	42	..	..	..	..	..	..	..	..	.....
	Minimum	59	55	58	61	48	49	42	40	75	68	..	35	56	71	72	71	63	44	52	55	58	67	72	79	65	74	74	67	64	66	..	§61.0
Russellville§§	Minimum	43	42	32	37	40	37	27	29	37	41	41	29	27	34	53	59	58	42	39	37	44	34	43	61	58	57	57	52	51	40	..	42.3
Central Division.																																	
Anchorage	Maximum	54	50	57	67	49	61	45	46	64	76	69	54	52	63	70	72	72	57	48	56	60	65	75	79	68	76	74	70	66	71	..	61.9
	Minimum	39	30	32	28	31	39	28	30	29	57	40	28	22	34	59	58	57	39	37	42	40	33	38	54	68	60	50	48	43	35	..	40 3
Bowling Green	Maximum	63	63	64	66	58	55	51	55	75	78	73	64	61	75	75	79	74	66	54	66	61	72	83	87	77	84	78	71	70	78	..	68.9
	Minimum	47	44	35	38	38	39	30	32	35	55	44	31	29	40	55	60	60	47	38	43	51	51	61	63	60	66	65	64	60	65	..	45.1
Danville	Maximum	59	64	56	56	57	52	46	53	66	77	75	50	54	62	75	78	77	72	52	61	60	66	77	84	80	79	75	71	65	72	..	66.4
	Minimum	45	39	35	32	29	35	25	28	32	63	41	29	23	34	62	57	59	45	40	33	42	37	38	49	55	61	64	53	44	43	..	41.7
Dix Dam	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	61	55	60	58	65	53	48	47	64	79	75	60	64	57	72	74	70	66	60	56	56	66	77	83	80	79	76	74	68	73	..	64.5
	Minimum	40	31	37	30	28	38	26	32	30	57	42	30	23	32	53	57	59	48	39	36	44	38	37	41	61	60	56	53	45	37	..	41.0
Glasgow	Maximum	56	47	59	61	51	51	62	52	62	76	75	44	64	69	73	76	76	67	56	56	56	67	78	82	82	79	79	71	67	71	..	64.4
	Minimum	46	39	31	33	36	37	29	31	35	56	42	30	27	36	54	59	59	45	41	33	44	38	38	46	57	60	52	52	49	39	..	42.4
Greensburg	Maximum	63	58	60	61	58	58	59	52	67	76	76	52	58	69	73	78	77	69	58	60	60	59	81	84	80	82	73	71	65	73	..	67.0
	Minimum	46	35	32	30	31	39	26	25	31	35	39	28	22	32	53	57	58	42	39	29	41	31	34	40	55	57	52	45	35	..	..	39.3
Irvington	Maximum	59	54	68	60	53	50	47	49	66	76	70	49	55	72	71	76	73	64	50	59	54	67	77	81	77	80	76	72	67	72	..	64.5
	Minimum	47	38	35	37	41	36	28	34	35	57	42	27	27	42	59	59	60	41	39	42	45	40	46	55	60	60	57	50	49	42	..	44.5
Leitchfield	Maximum	60	52	58	61	55	49	47	50	68	77	79	50	65	72	72	78	73	62	60	50	58	68	77	83	72	81	75	70	65	72	..	64.3
	Minimum	46	40	38	37	37	35	26	30	35	56	41	28	26	40	57	60	59	42	40	37	45	40	46	51	61	61	57	54	48	43	..	43.7
Lexington	Maximum	57	53	57	56	56	50	45	49	63	76	64	44	54	54	73	77	72	54	52	60	56	67	78	84	68	78	75	72	66	78	..	62.8
	Minimum	44	32	39	31	33	30	24	28	31	54	42	28	23	38	54	56	54	40	39	34	44	39	40	50	58	60	56	51	43	40	..	41.1
Louisville	Maximum	57	50	58	59	49	47	46	47	66	76	58	42	54	66	71	71	70	52	48	55	50	66	78	81	68	78	76	70	66	73	..	61.6
	Minimum	46	40	40	39	38	32	29	36	37	57	38	25	31	42	61	57	52	41	40	43	45	44	49	58	58	60	59	56	50	45	..	44.9
Do. Bowman Field	Maximum	57	50	56	57	60	48	46	47	66	77	58	42	56	63	71	72	69	52	48	57	52	66	78	82	70	79	76	71	67	73	..	61.9
	Minimum	46	36	39	35	35	32	28	33	34	57	39	28	27	39	60	58	52	40	40	42	46	40	44	54	59	60	56	54	47	42	..	43.4
Mammoth Cave	Maximum	60	56	69	61	64	55	42	50	71	77	72	51	56	71	72	78	72	50	51	58	59	67	81	82	76	82	74	72	66	72	..	64 9
	Minimum	44	36	27	31	36	34	25	27	32	54	46	28	22	34	57	57	53	42	37	29	44	33	36	46	56	58	54	52	46	35	..	41.2
St. John	Maximum	62	57	58	58	59	51	50	60	65	75	77	53	64	69	72	76	75	66	57	56	57	67	77	80	78	78	74	74	74	74	..	65.8
	Minimum	45	34	32	32	34	34	24	30	29	56	40	27	28	32	56	57	57	46	32	35	44	34	39	40	54	59	54	53	47	51	..	40.8
Shelbyville	Maximum	58	52	56	54	49	46	46	45	62	74	72	48	52	68	69	72	69	63	46	52	52	64	74	78	72	79	73	69	66	71	..	61.4
	Minimum	42	31	35	30	30	35	23	29	29	54	37	26	22	34	58	56	58	44	35	37	43	37	40	47	65	58	52	51	42	40	..	40.2
Smith's Grove	Maximum	61	58	61	66	52	56	47	54	71	76	57	45	57	72	73	78	78	59	62	60	61	69	80	82	74	80	76	70	70	72	..	65.6
	Minimum	46	40	32	36	36	40	28	30	36	54	44	29	26	38	51	69	57	42	39	33	47	35	41	45	58	59	57	52	49	41	..	42.7
Stearns	Maximum	54	54	56	59	58	64	46	54	68	71	71	44	68	63	75	78	78	74	50	65	64	67	81	81	73	82	74	66	64	72	..	65.4
	Minimum	46	43	31	36	33	36	29	26	34	54	41	31	26	36	63	64	58	48	41	39	50	39	44	49	58	62	57	45	45	36	..	43.0
Taylorsville	Maximum	48	48	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	56	68	78	82	70	80	75	72	67	72	.....
	Minimum	40	31	31	30	39	33	27	31	31	32	41	29	26	31	41	59	60	46	..	36	47	36	38	42	58	55	57	68	68	89	..	§40.0
Williamstown	Maximum	59	58	55	58	55	50	47	50	63	77	78	66	55	64	60	71	72	70	59	65	58	67	78	82	79	80	75	75	66	73	..	64.8
	Minimum	43	30	34	32	32	35	23	30	32	60	42	27	23	36	47	50	60	45	37	40	43	40	46	56	58	60	65	53	43	40	..	41.3
Eastern Division.																																	
Annville	Maximum	59	52	54	65	56	61	49	42	55	68	75	55	43	65	59	73	78	77	59	50	63	62	61	78	84	70	80	74	71	65	..	62.8
	Minimum	40	30	34	27	25	30	29	22	29	49	54	31	21	25	32	51	59	46	42	35	40	31	32	38	46	55	58	50	42	34	..	37.9
Ashland	Maximum	55	50	50	50	60	60	45	54	57	77	76	43	51	53	57	76	78	75	60	62	65	64	75	85	85	85	78	72	67	72	..	64.6
	Minimum	42	34	40	31	27	47	31	27	28	49	42	33	25	31	49	50	50	52	44	40	42	34	37	41	49	60	60	52	45	46	..	40 9
Berea	Maximum	62	57	53	60	56	54	49	53	66	78	46	46	56	57	72	78	76	71	52	62	61	65	80	81	84	78	75	69	66	71	..	64.1
	Minimum	84	40	40	30	32	35	28	28	31	44	40	22	24	35	54	56	59	45	40	36	41	40	43	65	52	62	69	52	42	41	..	41.7
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	54	59	54	66	62	53	46	41	61	78	45	46	56	50	62	78	75	50	51	61	57	65	82	84	84	77	70	66	67	70	..	62.0
	Minimum	39	29	34	27	24	38	28	24	26	54	42	32	22	29	50	57	57	42	38	41	36	34	39	49	64	58	47	47	47	49	..	40.6
Heidelberg	Maximum	59	56	58	57	63	60	46	54	66	78	78	45	57	58	74	79	79	74	58	63	65	67	74	81	72	82	75	71	66	74	..	65.6
	Minimum	42	31	35	29	26	46	31	24	30	45	44	34	24	30	46	57	55	47	45	39	42	34	34	39	51	69	58	49	46	36	..	40.3
Maysville	Maximum	57	55	54	58	60	50	42	50	61	80	76	49	55	50	60	70	73	70	51	57	57	65	77	82	80	80	76	71	65	71	..	68.2
	Minimum	41	33	37	31	28	37	29	30	37	62	42	31	24	30	47	51	55	47	40	42	43	38	37	43	60	57	57	55	46	39	..	40.7
Middlesboro	Maximum	59	59	67	64	60	60	49	65	..	76	66	67	68	68	75	79	77	71	61	62	70	79	83	70	85	76	73	67	75	..	..	§66.6
	Minimum	49	40	42	41	28	39	32	28	..	55	42	35	28	48	55	60	61	55	44	38	49	34	33	39	53	61	68	54	51	36	..	§44.4
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	57	60	60	60	68	56	45	57	67	83	75	47	59	66	74	82	80	74	62	69	71	70	83	90	76	76	77	77	69	72	..	68.7
	Minimum	42	37	37	32	28	41	33	27	29	52	46	39	28	31	48	55	58	52	46	41	40	37	36	41	50	60	60	55	50	36	..	42.3
Pippapass	Maximum	40	33	35	30	41	39	31	24	40	48	45	36	25	30	35	49	60	51	44	40	40	31	35	41	51	57	57	51	47	32	..	40.6
	Minimum	58	68	61	58	68	51	49	57	66	81	79	47	68	63	72	81	80	80	54	61	78	75	83	88	75	84	76	76	77	80	..	69.1
Quicksand	Maximum	40	30	35	27	24	38	29	23	27	46	40	31	23	28	43	55	54	47	43	36	40	33	32	38	46	56	61	49	44	34	..	38.1
	Minimum	60	60	55	56	58	52	48	50	65	80	46	43	56	60	73	78	75	58	52	60	62	65	82	83	70	80	78	73	67	56	..	68.0
Richmond	Maximum	45	36	38	35	35	45	28	30	33	55	46	30	27	40	45	56	60	47	40	38	49	40	47	56	62	62	60	55	46	42	..	44.2
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Williamsburg	Maximum	38	35	35	31	29	27	29	26	34	36	43	37	25	34	38	46	56	48	40	42	41	34	50	50	54	60	52	58	41	32	..	40.0
	Minimum	56	54	54	59	57	48	48	50	62	77	70	45	53	52	72	75	72	66	51	58	58	63	70	81	73	77	73	69	68	70	..	62.3
Winchester	Minimum	44	34	37	34	30	36	25	28	28	54	40	29	25	35	56	52	59	45	41	36	44	39	44	54	58	62	68	54	46	46	..	42.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 5 25 39-1100

2105
NKE

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA

THE LIBRARY OF THE
JUL 18 1939
UNIVERSITY OF ILLINOIS

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., MAY, 1939 No. 5

GENERAL SUMMARY.

Abnormally cool weather early in the month and in the second decade retarded germination and growth. Frosts caused some damage to potatoes and strawberries in central and eastern sections. The high temperature of the last two weeks so advanced vegetation as to largely overcome the delaying effect of the earlier coolness. A dry week at the beginning permitted the soil to drain and plowing to be resumed. After this the rainfall was seldom sufficient to interfere with plowing for more than a day or two, so that there was a steady gain in this feature of farm work until late in the month, when increasing dryness began to interfere with soil conditioning. Corn planting became general toward the end of the first decade, but progress was slow because of the backward state of soil preparation. The rainfall was local, very irregular and light in the last two decades. It was beneficial in some places, but most of the State did not receive enough for the needs of quick growing early crops.

On account of the dry weather nearly all of the tobacco setting was done on the smoother lands by machine. Plants developed late, therefore transplanting began about a week after the usual date. The high temperatures of the last two weeks brought up corn and cotton with unusual promptness and caused exceptional growth. Strawberries were rendered inferior and the period of harvest was shortened by the dry weather. Barley and rye were injuriously affected while the heads were filling. At first the dry weather improved wheat, especially on those lands that had drained slowly. Later on some types of soil that harden quickly produced shortened straw and irregular growth. The moisture deficiency toward the end of the month diminished the growth of oats, and the high temperature tended to shorten straw. Potatoes came up very late and were adversely affected by the heat. Cutting first crop alfalfa became rather general in the last week with almost perfect weather for curing. Pastures remained good but growth slackened toward the end.

TEMPERATURE.

In the short cool spell that ushered in the month, temperatures fell to freezing or slightly below at many central and eastern stations. In most districts the lowest temperatures occurred on the morning of the 4th, accompanied by light to heavy frosts. Temperatures near freezing were registered in the second cool period from the 11th to 16th. Temperatures above normal prevailed from the 5th to 10th, while daily means ranged from 5° to 10° above the average in the last decade. The warmest weather occurred in the last week, when maxima of 85° to 95° were reported from most stations. Extremes for the State were 94° at Lexington on the 26th and 30° at Greensburg on the 5th.

PRECIPITATION.

Precipitation averaged less than half of the normal amount. It occurred mostly in the form of local showers, and the distribution over the State was decidedly irregular. Moderate to heavy rains fell in many places in the periods 7-8th, 20th-22d, and 27-29th. Showers were generally light and scattered on other dates. In the upper basins of the Kentucky and Cumberland rivers the total for the month ranged between 2.0 and 4.5 inches. The rainfall decreased irregularly in all directions from this area. Several western counties received as much as 2.0 to 3.0 inches. In other parts of the State amounts varied generally between 1.0 and 2.0 inches. Much of the area from Meade County northeast to the lower Licking Valley received less than 1.0 inch. The range for the State was between 4.51 inches at Lancaster and 0.55 inches at Irvington. Thunderstorms were reported on the following dates: 8, 11, 12, 15, 18, 19, 20, 21, 24, 25, 26, 29.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 7 a. m.	12 noon	7 p. m.	Percentage of sunshine.
Cairo ..... Ill.	29.96	30.27	3	29.44	8	7.4	27	s.	27	81	55	56	73
Cincinnati ..... Ohio	29.99	30.32	3	29.51	9	6.3	22	w.	21	78	48	53	75
Evansville..... Ind.	29.97	30.32	3	29.41	8	7.6	40	sw.	8	72	47	50	71
Louisville ..... Ky.	29.98	30.31	3	29.50	9	7.7	26	w.	28	76	51	50	75

COMPARATIVE DATA FOR MAY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	63.6	94	28	4.03	....	..	..	..	..
1890	63.9	93	32	4.22	....	..	..	..	..
1891	62.6	90	29	1.78	....	..	..	..	..
1892	64.6	90	36	5.49	....	..	..	..	..
1893	63.2	96	37	5.59	....	..	..	..	..
1894	64.5	99	32	3.54	....	..	..	..	..
1895	63.9	99	29	3.16	....	8	13	10	8
1896	72.2	106	42	5.34	....	11	14	11	6
1897	61.4	92	32	3.27	T.	10	15	9	7
1898	67.6	93	31	4.52	0.2	10	14	11	6
1899	68.8	94	42	4.79	0	11	11	12	8
1900	66.3	96	29	3.49	0	10	15	8	8
1901	63.7	97	34	2.65	0	10	12	9	10
1902	70.0	98	35	3.55	0	9	17	9	5
1903	68.0	98	29	3.09	0	8	15	10	6
1904	65.0	98	33	3.05	0	10	14	9	8
1905	68.0	95	38	5.23	0	11	12	9	10
1906	69.5	95	31	2.54	T	9	16	7	8
1907	61.3	93	30	5.07	0	12	12	7	12
1908	66.7	96	28	4.34	0	12	13	8	10
1909	63.9	93	27	4.64	T	12	13	7	11
1910	61.1	89	30	4.81	0	12	13	6	12
1911	69.4	105	29	2.46	0	5	22	5	4
1912	66.7	97	37	4.53	0	10	16	6	9
1913	66.1	99	29	2.92	0	8	16	7	8
1914	66.5	103	32	2.16	0	5	20	6	5
1915	65.2	95	35	6.62	0	15	9	8	14
1916	67.2	98	33	4.02	0	9	14	9	8
1917	58.9	92	30	3.43	0	10	12	8	11
1918	69.4	97	28	4.29	0	8	16	8	7
1919	63.9	95	35	6.05	0	14	9	8	14
1920	64.2	94	32	4.08	0	11	13	7	11
1921	65.9	97	32	2.45	0	8	16	8	7
1922	67.9	94	35	3.87	0	10	14	10	7
1923	63.9	91	27	3.98	T.	13	11	8	12
1924	69.5	92	34	5.04	0	14	10	9	12
1925	61.2	98	28	2.61	T.	8	16	8	7
1926	66.2	101	31	2.36	0	7	17	8	6
1927	65.7	93	31	7.44	0	16	10	10	11
1928	63.2	94	29	3.58	0	9	16	7	8
1929	64.1	98	32	7.35	T.	14	12	8	11
1930	66.5	94	33	2.96	0	9	15	8	8
1931	62.7	97	30	2.59	0	11	13	8	10
1932	65.1	92	33	1.39	0	6	18	8	5
1933	68.7	95	40	6.48	0	15	11	9	11
1934	67.7	99	36	1.67	0	5	20	6	5
1935	63.5	91	36	7.40	0	14	11	9	11
1936	68.3	96	35	1.50	0	5	22	6	3
1937	65.2	99	36	4.01	0	10	16	7	8
1938	65.7	93	32	5.73	0	14	11	10	10
1939	66.3	94	30	1.37	0	7	15	10	6
Period	65.4	106	27	3.97	T.	10	14	9	8

†51 year averages.

Climatological Data for May, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	27	66.8	+ 0.5	90	23	37	4	37	1.06	−3.17	0.51	0	6	13	10	8	s.	Eldred G. Young.
Calhoun	McLean	437	35	65.3	− 1.3	90	23	36	4	34	1.60	−2.38	0.72	0	7	17	4	10	.....	K. C. Bennett.
Earlington	Hopkins	420	45	68.6	+ 1.6	91	24	33	4	40	2.87	−1.24	0.93	0	12	17	4	10	sw	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	2.80	−0.82	0.93	0	8	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	2.63	.....	0.89	0	6	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	65.9	+ 0.7	90	23	35	4	36	1.59	−2.66	0.60	0	10	16	12	3	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	1.30	.....	0.59	0	8	16	4	11	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	66.6	.....	92	23	35	3	38	2.85	−1.08	1.10	0	8	12	17	2	s.	Frank T. Street, Jr
Hopkinsville	Christian	624	43	66.8	− 0.4	90	25†	38	4	37	1.34	−2.78	0.52	0	8	19	10	2	s.	W. R. Morris.
Lovelaceville	Ballard	479	10	67.9	+ 0.9	89	23	37	3†	43	2.15	−1.35	0.42	0	10	13	14	4	s.	Blaine Malone.
Mayfield	Graves	364	30	67.0	+ 0.5	86	23†	40	4	32	3.33	−0.67	0.99	0	13	15	11	5	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pat W. Wear.
Owensboro	Daviess	420	42	66.8	+ 1.4	91	25	39	4	34	1.15	−2.78	0.60	0	6	18	6	13	se.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	1.35	−2.47	0.54	0	8	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	69.2	− 0.5	92	24	42	4	34	1.95	−1.99	0.46	0	8	14	6	11	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	67.8	+ 1.5	91	24	38	3	38	2.00	−2.06	0.76	0	8	14	16	1	.....	Joe Lagore.
Princeton	Caldwell	529	32	.....	.....	90	25	.....	.....	.....	.....	.....	0.80	0	.....	.....	.....	.....	.....	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	1.46	−2.78	0.73	0	10	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	°62.6	− 3.1	83°	6†	°35	4	°32	2.20	−1.67	1.12	0	9	.....	.....	.....	.....	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	2.60	−0.88	0.86	0	9	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	11	.....	.....	.....	.....	.....	.....	.....	1.34	−2.64	0.59	0	7	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	64.1	+ 0.7	87	24†	33	3	37	0.97	−2.76	0.49	0	6	20	7	4	se.	C. E. Barret.
Bowling Green	Warren	500	43	69.0	+ 1.5	89	24†	41	4	34	1.33	−2.86	0.30	0	8	16	8	7	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	1.63	−2.31	0.48	0	6	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	2.56	−1.94	1.09	0	9	.....	.....	.....	.....	T. A. Lewis
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	0.78	−3.05	0.34	0	3	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	1.60	−2.25	0.75	0	8	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	65.8	.....	90	24	37	4	37	2.96	−0.87	0.91	0	10	13	9	9	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	67.1	+ 2.5	91	23†	36	3†	38	2.79	−0.68	0.82	0	9	15	6	10	sw.	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	2.55	.....	0.55	0	9	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	41	.....	.....	.....	.....	.....	.....	.....	3.36	−1.09	0.84	0	7	12	13	6	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	66.4	+ 1.2	92	28	34	4	40	0.91	−2.37	0.48	0	4	13	11	7	s.	Lockmaster.
Gest, Lock 8	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	0.89	−2.37	0.25	0	6	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	67.0	+ 1.2	90	25	36	4	40	1.65	−1.98	0.65	0	5	13	13	0	s.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	1.29	−1.86	0.46	0	9	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	65.4	+ 0.9	91	25	30	5	35	1.91	−2.47	0.70	0	9	6	0	25	w.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	2.27	−1.39	0.74	0	9	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	67.2	+ 1.2	90	25	38	3	84	0.55	−3.18	0.24	0	4	17	4	10	sw.	W. J. Piggot.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	1.16	.....	0.60	0	6	12	17	2	sw.	E. P. Johnson.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	4.51	+0.16	2.70	0	9	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	66.7	+ 1.4	90	25	38	3	36	2.03	−2.14	1.17	0	8	14	13	4	s.	H. H. Willis.
Lexington	Fayette	989	56	66.6	+ 2.3	94	26	35	3	37	2.00	−1.81	0.67	0	9	7	16	8	.....	U. S. Weather Bureau.
LittleRickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	1.81	−1.97	0.50	0	10	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	1.19	−2.27	0.29	0	6	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	67.9	+ 1.3	91	24	40	3	31	0.96	−2.76	0.41	0	7	13	12	6	sw.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	1	66.9	.....	92	25	37	4	36	1.18	.....	0.62	0	6	13	11	7	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	64.9	.....	90	25	31	4	44	1.33	.....	0.36	0	9	15	7	9	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	1.17	.....	0.60	0	7	13	11	7	.....	E. O. Cooper
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	1.03	−2.71	0.69	0	4	.....	.....	.....	.....	Mrs. M. W. Price.
St. John	Hardin	777	43	65.8	+ 1.7	90	25†	36	4	33	2.65	−1.42	0.94	0	7	14	10	7	sw.	Sisters of Loretto.
Salvisa, Lock 6‡	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	1.64	−1.87	0.89	0	6	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	64.8	+ 0.4	91	26	33	3	38	0.86	−3.17	0.27	0	6	13	1	17	s.	Willa S Ratta,
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.29	0	4	13	13	0	sw.	A. McLeod.
Smith's Grove	Warren	607	1	66.4	.....	91	26	36	4	42	0.93	.....	0.41	0	10	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1440	8	65.3	.....	88	24	35	3	37	1.83	.....	0.80	0	9	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	66.5	+ 2.6	92	26	31	3	44	0.65	−3.08	0.35	0	8	24	7	0	w	Thad. Cheatham, Sr.
Tyrone, Lock 5‡	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	1.68	−1.87	0.84	0	5	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	68.2	+ 4.5	92	26	36	8	35	1.17	−2.41	0.60	0	7	23	1	7	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	2.58	−1.05	1.07	0	8	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jacksou	.....	8	64.0	.....	90	25	31	4	37	2.95	.....	1.05	0	11	10	13	8	sw.	W. A. Worthington.
Ashland	Boyd	534	22	66.8	+ 2.5	92	25	35	4	39	1.22	−2.84	0.56	0	6	16	12	3	w.	Lockmaster.
Berea	Madison	1070	36	66.2	+ 1.3	91	24	35	3†	39	1.70	−2.34	0.53	0	7	17	6	8	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	1.79	−2.15	1.10	0	6	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	.....	.....	2.83	.....	0.72	0	10	.....	.....	.....	.....	W. Bertrand Fields.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	2.41	−1.00	0.86	0	4	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	0.77	−2.76	0.24	0	7	.....	.....	.....	.....	J. V Oldham.
Farmers	Rowan	668	32	64.3	+ 1.1	89	18†	32	3†	39	1.67	−2.25	0.48	0	10	11	11	9	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	2.87	−0.83	1.23	0	9	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	28	.....	.....	.....	.....	.....	.....	.....	2.62	−0.88	1.24	0	10	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	1.91	−1.64	0.52	0	7	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	1.04	−2.27	0.28	0	9	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	2.28	−2.86	0.50	0	8	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	4	66.0	.....	91	24	33	4	43	1.30	−2.68	0.43	0	6	10	6	15	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	1.90	.....	0.96	0	5	.....	.....	.....	.....	Jas. F Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	2.22	−2.55	0.76	0	7	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	0.79	−3.07	0.28	0	6	.....	.....	.....	.....	Jacob Workman
Maysville, Dam 33	Mason	524	41	66.8	+ 2.3	92	24	34	3†	39	1.03	−2.62	0.39	0	8	14	14	3	s.	Lockmaster.
Middlesboro	Bell	1128	40	°65.2	+ 0.5	88ª	26	32ª	4	44ª	1.39	−2.63	0.30	0	11	12	17	2	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	2.53	.....	0.80	0	4	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	0.61	−2.84	0.24	0	5	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	1.83	.....	1.03	0	10	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	3	67.8	.....	92	24†	34	4	42	2.41	−1.13	0.82	0	12	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	65.4	.....	89	31	32	3†	41	1.47	.....	0.40	0	10	12	16	3	.....	Caney Run Com. Ceu.
Quicksand	Breathitt	732	13	°65.6	+ 0.8	93ᵇ	24	31ᵇ	4	48ᵇ	3.87	−1.27	1.70	0	4	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	1.81	−2.11	1.08	0	4	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	67.8	+ 2.3	90	24	37	3	30	1.39	−2.45	0.60	0	11	16	7	8	.....	I. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	0.63	−3.38	0.20	0	7	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	2.56	−1.27	1.18	0	9	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	.....	.....	91	25	.....	.....	.....	1.56	−2.53	0.62	0	7	14	9	8	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	1.09	−2.71	0.47	0	6	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	.....	65.6	.....	89	24	34	3	31	2.07	.....	1.06	0	10	.....	.....	.....	.....	Airway Station.
State averages and extremes				66.3	+ 0.9	94	26	30	5	48	1.37	−2.60	2.70	0	7	15	10	6	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, ª, ᵇ, °, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for May, 1939.

Stations	Day of month																													Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam..... G.								.51	.10			.10							T.		.16						.16	.08				1.06
Calhoun..... G.								.89	.08		T.	T.	.13						.06	.07					.72		.20				T.	1.69
Darlington [2]..... G.								.02	.65		.03	.15			.03	.04			.07	.10	.03	.12					.93					2.87
Fords Ferry Dam 60[2]..... O.								T.	.93		.06	.14	.08	.05	T.	T.			T.	.02		T.			T.		.72	.80				2.80
Gilbertsville[2]..... T.									.20	.53			.12						.08			.27					.74	.89				2.63
Greenville..... G.						T.		.50	.20		.06	.05	.08		.02					.10					.18	T.	.80	.10				1.69
Hartford..... G.								.69	.05		.01	T.	.14		.04				.03	.07	T.						.86					1.39
Henderson..... O.								1.10	.07		.05		.01		T.				T.	.07					.24	.48	.83					2.95
Hopkinsville [2]..... C.								T.	.52		T.	.06		.02					.07			.20			T.	.05	.28	.14				1.34
Lovelaceville..... M.							.42				.18			.10				.15	.10	.15			.35		.20	.32	.18					2.15
Mayfield..... M.							T.	.24	.05		T.	.24	.08		.04				.20	.11	.46	.02		.63	.20	.08	.99					3.23
Murray..... T.																																
Owensboro [2]..... O.									.60	T.		T.	T.	.02	T.	T.			T.	T	.15	.08				T.	.10	.20				1.15
Owensboro, Dam 46 [2]..... O.									.54	T.	T.	.03		.02						.06	.14	.11					.06	.39				1.35
Paducah [2]..... O.							T.	T.	.46		T.	.10	T.	T.	T.				.09	T.	.01	.02			.08	.35	.38	.40				1.95
Paducah (near) [2]..... O.							.02	.26			F.	.10			.06				T.	T.	T.			.12	.80	.76	.38					2.00
Princeton..... G.																			.05	.17	.06					.05	.80	.01			T.	
Rumsey, Lock No. 2 [2]..... G.									.40			.03	.02	.01		.03			.05	.01						.78	.14	.04				1.46
Russellville [2]..... G.									.43			.06		.01		.02				.10	.28				.02		.16	1.12				2.20
Uniontown, Dam 49[2]..... O.								T.	.96		.11	.04	T.	.02	T.	.01				.13	.14						.77	.42				2.60
Central Division																																
Addison, Dam 45. [2]..... O.									.59	.03		.01	T.	T.					.01	.02	T.	.22					T.	.46				1.34
Anchorage.....								.25	.10										.07	.49	T.					.01	.05				T.	0.97
Bowling Green [2]..... G.								T.	.80			.02		.02		.10			T.	.20	.30							.15	.24			1.83
Brownsville, Lock No. 6[2].....									.45										.03	.42		.30						.40				1.68
Burnside[2]..... C.								.04	.50	.03				T.						.18	.10	.03				T.	.36	.28			1.09	2.56
Carrollton Lock No. 1[2]..... K.									.18										.26	.34												0.78
Cold Spring, Dam 36[2]..... O.	T.								.18	T.	T.	.02	T.	T.		.21			.04	T.	.16	.75					.02	.22				1.60
Danville[2]..... K.								.05	.28	.02			T.	.09						.91	.17	.17				.10	.49	.63				2.96
Dix Dam, Burgin..... K.								.82											.38	.20	.20			T	.18	.05	.70	.08			.23	2.79
Eadsville [2].....									.37	.06										.56	.07					.53	.16	.32	.48		.06	2.55
Eubank..... C.									.21	.28										.50	.15							.63	.75		.84	3.36
Frankfort, Lock No. 4[2]..... K.									.30	.05		T.	T.	T.						.08	.48	T.				T.		T.	T.			0.91
Gest, Lock No. 3 [2]..... K.	.03						.04	.23	.20	T.										.12	.25	.06			T	T.						0.93
Glasgow..... G.									.63				.05							.40		.54		T.			.01					1.65
Grant, Dam 39[2]..... O.	T.							.07	.13	T.	.02	T.								.05	.07	.20										1.23
Greensburg[2]..... G.								.14	.70				.05	.07		.12				.10	.37	.08					.11	.40				1.91
High Bridge, Lock No. 7[2]..... K.	T.							T.	.74	T.		T.		.07						.30	.17	.31			T.	.04	.07	.56	.01		.30	2.27
Irvington..... O.								.21	.06		T.		T.		T.				.04	T	T.	T.					.24				T.	0.55
LaGrange..... O.								.27	.10											.60	.12	.05					.02					1.16
Lancaster[2]..... K.							.04	.93					.03						.03	.12	.05				2.70	.05					.50	4.51
Leitchfield [2]..... G.									1.17	.04			.03		T.					.36	.03	.22						.08	.10			2.03
Lexington ‡..... K.								.67	.03		T.	T.	.04						.08	.04	.50				.06	T.	.52				.06	2.00
Little Rickman, Lock No. 8 [2]†..... K.									.20				.10							.20	.08	.20			.10	.06	.07	.50	.30			1.81
Lockport, Lock No. 2 [2]..... K.								.06		.29										.27	.17	.18				T.		.27				1.19
LOUISVILLE [1] ‡..... O.								.34	.07		.03		T.		T.				.11	.20							.12				.09	0.96
Do. Bowman Field..... O.									.39	.10		.03	T.	T		T.				.62	.02	T.					.02					1.18
Mammoth Cave[2]..... G.									.18			T.		.07		.01			.10	.28	.02	.36	.02					.29				1.33
Monticello [2]..... C.									.60					.04					.05	.30	.05							.08			.05	1.17
Munfordville [2]..... G.									.12	T.				.08						.69	T.							.14				1.03
St. John [2]..... S.									.94	.02				.05						.92	.50							.18	.04			2.65
Salvisa, Lock No 6 [2]†..... K.									.89	.02										.22	.37	.06				T.		.08				1.64
Shelbyville[2]..... S.								.05	.27	.11	T.		T.							.11	.20	T.						.12				0.86
Shepherdsville..... S.								.10	.13		T.									.18							.29			T.		0.70
Smith's Grove..... G.								.05	.01	T.	.01	.02	.03		.01				.35	.02	T.						.41	.02		T.		0.93
Stearns.....									.53											.07	.06	.22		T.		.03	.80	.05		.03		1.33
Taylorsville..... O.								.20	.10					.04													.35					0.65
Tyrone, Lock No. 5 [2]†..... K.									.84				T.			T.				.12	.50	T.				.05	T.	.12					1.63
Williamstown [2]..... L.									.10	.05						.10				.02		.60				.05	.25					1.17
Woodbury, Lock No. 4[2]..... G.									1.07					.01		.03			.02		.32	.52				.23		.35				2.58
Eastern Division																																
Annville [2]..... C.								.03	.50	T.				T.		.02			.10	.15	.55			T.	1.05	.13	.30	T.	.10	.04	2.93
Ashland [2]..... O.								.05	.07							.02	.12				.56							.40				1.22
Berea..... K.								T.	.29										.19		.37			.03	.53		.10	.19				1.70
College Hill, Lock No. 11[2]..... K.									.20	.02		T.		.05						T.	T.	1.10					.04	.38				1.79
Cumberland..... C.									.72					.07							.02				.02		.09	.24	.17	.27	.20	2.33
Cynthiana [2]..... L.									.76		T.											T.					.29	.50	T.		.86	2.41
Falmouth [2]..... L.									.24	.06		T.				.09				T.	.19	.02					.01		.16			0.77
Farmers [2]..... L.	.03							.17	.03		T.		.03			.25			.10	T.		.48			.06		.24	.28				1.67
Flemingsburg [2]..... L.									.42	.06	.01					.18					.04	.76	.16			.06		1.28				2.87
Ford, Lock No. 10 [2]†..... K.									.39	.02		.03	T.	.04		.01				.01	T.	1.24				T.	.07	.39	.42			2.62
Grayson [2]..... O.									.17	.11						.31					.15	.50						.15	.52			1.91
Greenup, Dam 30[2]..... O.								.01	.18	.02						.03	.05				.20	.10						.22	.28			1.04
Hazard [2]..... K.									.28								.50			.40		.45				.15		.05	.10	.32	2.25
Heidelberg, Lock No. 14[2]..... K.								.02	.34					.03						T.	.12	.48				.10		.24	.07			1.30
Jackson [2]..... K.									.44							T.				.29		.96				.10				.06		1.90
Jenkins [2]..... B.												.76		.12		.38				.11		.65				.10		.10				2.22
Lonisa [2]..... B.								.05	.10							.18					.10	.28	.08									0.79
Maysville, Dam 33[2]..... O.	.02								.39	.03	T.		T.	T.		.25				.03	.04	.21	T.			T.		.12	T.			1.09
Middlesboro..... C.								.02	.21	.03			.09		.18	.21				.05							.10	.30	.21	.02		1.39
Mount Sterling..... L.																																
Oneida [2]†..... K.									.90													.82					.20			.61		2.53
Oneonta Dam 35[2]..... O.								.10	.02	T.		T.				.12			T.	.18	.24				T.	T.	T.					0.61
Paintsville [2]..... B.	.04								.24			.10	.02					.26		.02	.02	1.03	.01				.09		T.			1.83
Pikeville..... B.	.07							.03	.14	T.	.18		.06			.04			.13	T.	T.	.13			.82	.01	T.	.20	.60			2.41
Pippapass..... K.									.20				.08			.02					.09	.18			.85	.10		.40	.01	.04	T.	1.47
Quicksand [2]..... K.									.16										.56			1.70			1.12							3.87
Ravenna, Lock No. 12[2]..... K.									.44	.08				T.		T.				T.	T.	1.08				T.		.21				1.81
Richmond [2]..... K.									.60	.10				.10		.03				.05		.03				.05	.05	.30	.05			1.39
Valley View, Lock No. 6[2]..... K.							.08		.20					.05						.04						.02	.03	.14	.15			0.63
Vancebrg. Dam No. 32 [2]..... O.									.02	.07						.28				.07	.10	.71				.11		.15	.02			2.56
Williamsburg [2]..... C.									.28							.05				.02			T.				.48		.08	.02	.03	1.56
Willow, Lock No. 13[2]..... K.									.80				.09								.08	.47				.08		.07				1.09
Winchester..... K.	.01								.33	.02		.02	T.	.06		T.				.02	T.	1.05				T.	.07	.30	.15			2.07

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours.
T. Trace, or precipitation less than 0.01 inch. [2]Precipitation measured with recording gage. [3]Included in the next following measurement
Lock 10, Red House Ky.: Oneonta, California, Ky. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.: Lock 6, Versailles, Ky.: Lock 8, Nicholasville Ky.:
Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K)

Daily Temperatures for May, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.	Maximum	71	65	68	72	81	83	76	72	72	81	75	67	67	73	71	74	84	87	78	78	83	85	90	87	89	86	83	86	84	86	82	78.4
Beaver Dam	Minimum	47	41	38	37	44	48	58	62	58	46	56	52	50	41	45	51	45	54	62	63	62	64	62	64	65	67	69	69	62	60	65	55.1
Calhoun	Maximum	70	61	61	79	79	78	75	82	73	80	80	70	67	72	69	74	82	85	74	78	80	89	90	87	85	86	74	89	77	88	80	77.7
	Minimum	42	40	37	36	45	47	46	57	54	45	44	49	49	42	42	50	45	54	61	63	62	69	63	60	65	67	69	69	62	60	59	52.9
Earlington	Maximum	74	71	65	73	80	85	84	77	76	81	82	76	67	74	75	77	86	89	86	80	84	87	89	91	90	87	85	87	86	88	88	81.1
	Minimum	45	43	39	38	45	49	63	63	59	50	57	56	51	46	45	49	46	55	63	65	66	63	64	65	69	66	69	69	62	60	68	56.2
Greenville	Maximum	70	64	63	74	80	82	78	75	76	77	76	67	65	72	75	75	84	89	78	83	85	90	93	88	88	85	81	85	83	86	83	78.7
	Minimum	45	41	38	35	42	46	55	60	56	46	55	48	48	40	42	49	44	53	60	61	62	59	60	63	61	64	67	66	59	58	63	54.1
Henderson	Maximum	71	64	63	75	80	81	74	71	74	80	69	63	70	77	78	75	83	87	77	78	83	91	92	91	85	83	75	85	80	87	82	78.2
	Minimum	45	40	35	37	45	54	58	59	58	53	53	50	49	41	51	48	46	56	62	64	64	63	61	64	66	66	69	65	60	58	61	55.0
Hopkinsville	Maximum	78	72	73	80	83	87	78	74	82	81	67	63	74	78	77	85	85	74	78	83	87	88	89	85	86	85	83	81	86	86	84	79.1
	Minimum	48	42	39	38	43	47	57	60	56	46	55	50	53	40	44	49	45	54	61	63	64	63	61	64	66	66	68	66	60	59	66	54.6
Lovelaceville	Maximum	76	71	73	80	83	83	78	74	82	81	67	63	74	78	77	85	85	74	78	83	87	88	89	85	86	85	83	81	86	86	84	80.2
	Minimum	46	43	37	37	48	60	62	58	47	60	58	52	42	46	51	48	52	52	61	60	76	62	64	68	66	69	64	60	57	65	64	55.6
Mayfield	Maximum	74	69	64	72	78	82	79	79	76	81	75	66	61	72	77	76	83	84	76	78	81	85	86	86	84	85	80	85	82	85	80	78.1
	Minimum	49	43	42	40	47	53	60	59	56	51	59	50	50	40	48	53	52	58	60	62	64	60	61	65	66	64	67	67	60	59	66	55.8
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Murray	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	72	64	65	71	80	83	81	80	77	81	76	71	62	73	71	73	83	87	79	79	82	87	90	90	91	89	87	86	84	85	85	79.5
Owensboro	Minimum	46	38	40	39	45	49	56	59	57	46	56	48	50	41	45	50	47	55	62	62	62	62	60	61	65	67	65	67	65	60	58	54.1
	Maximum	75	66	68	75	84	86	80	79	74	85	72	65	68	74	79	80	88	88	78	82	84	88	91	92	88	90	84	86	82	88	88	80.9
Paducah	Minimum	51	48	48	42	47	50	60	62	59	50	60	51	53	43	50	55	50	58	62	64	65	62	64	66	68	68	70	66	64	60	68	57.4
	Maximum	78	73	69	75	80	83	79	78	73	82	79	67	68	75	77	80	83	85	80	81	82	89	90	91	84	86	81	84	81	87	81	80.0
Paducah (near)	Minimum	46	44	38	38	45	45	56	61	58	52	58	52	52	42	52	49	55	58	62	61	65	61	61	64	67	66	66	65	60	57	69	55.6
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Princeton	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	65	57	56	65	73	83	74	74	69	79	61	64	57	67	67	69	79	80	75	76	..	..	..	81	79	77	77	76	68	76	77	°72.0
Russellville§§	Minimum	45	40	38	35	41	47	57	59	56	46	56	56	52	38	43	49	44	53	62	63	63	..	..	..	59	67	67	67	62	61	65	°53.2
Central Division.	Maximum	63	63	62	69	79	82	80	68	73	75	68	68	66	67	68	72	80	83	74	78	79	80	85	87	87	87	83	84	81	83	85	76.0
Anchorage	Minimum	42	36	33	34	42	45	55	52	56	42	52	43	51	40	43	50	48	53	57	61	61	63	59	61	63	61	69	69	60	58	61	52.2
	Maximum	75	67	68	73	84	86	78	75	74	84	76	69	65	76	69	80	87	88	83	82	85	87	85	89	88	86	85	88	89	92	82	80.5
Bowling Green	Minimum	50	45	42	41	46	52	58	61	59	51	59	54	56	53	48	51	49	56	63	65	64	62	64	68	64	68	69	69	64	64	66	57.5
	Maximum	71	63	61	70	79	84	81	75	72	78	75	69	63	70	71	71	81	87	81	77	81	83	87	90	88	87	85	85	83	85	85	78.0
Danville	Minimum	42	38	38	37	47	48	54	54	58	49	56	47	50	38	39	51	44	55	60	61	62	62	60	62	64	61	65	68	64	61	65	58.5
	Maximum	71	66	63	70	81	86	83	76	72	80	80	70	70	71	72	76	84	89	84	76	80	84	91	91	91	90	85	88	87	88	88	80.2
Dix Dam	Minimum	44	40	36	36	53	48	56	58	61	52	59	50	50	40	42	55	46	58	60	60	66	63	61	62	65	63	70	70	67	62	66	54.7
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Enbank	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	67	63	63	71	81	84	82	74	75	81	78	69	66	73	70	76	83	89	81	76	82	85	91	91	91	91	86	92	85	88	89	79.8
Frankfort	Minimum	40	39	36	34	46	46	52	58	60	47	55	47	53	40	40	50	43	50	57	63	62	65	60	59	61	63	61	68	71	64	60	53.1
	Maximum	71	70	64	73	80	82	83	75	74	80	79	71	68	72	72	76	85	87	81	77	84	84	89	85	90	89	83	87	83	84	83	79.5
Glasgow	Minimum	45	38	38	36	42	47	56	58	57	47	55	52	53	39	45	50	45	52	63	62	67	61	61	64	62	67	70	70	65	63	64	54.6
	Maximum	71	67	64	73	82	85	83	76	72	80	78	79	66	71	73	78	80	88	82	76	85	87	87	85	91	90	85	87	87	87	85	79.8
Greensburg	Minimum	41	38	34	32	30	44	50	59	55	45	50	49	50	37	38	47	41	49	58	60	60	57	59	62	60	60	64	68	62	59	61	51.0
	Maximum	68	64	62	70	79	82	78	72	73	79	73	65	67	72	71	74	83	86	80	78	81	83	88	88	88	90	84	88	85	92	85	77.8
Irvington	Minimum	46	41	38	40	47	52	62	61	59	52	58	49	51	43	47	51	49	57	64	64	66	64	64	65	67	67	71	69	65	62	67	56.7
	Maximum	69	61	62	72	81	84	78	72	69	79	72	67	67	72	69	74	84	88	76	75	81	85	89	89	90	87	83	87	85	86	84	78.0
Leitchfield	Minimum	45	41	38	39	45	53	59	57	57	50	57	50	49	42	46	53	46	56	62	63	62	61	64	66	63	67	69	68	62	62	65	55.4
	Maximum	65	60	62	73	80	88	83	76	67	80	73	68	66	71	70	77	84	88	80	78	84	85	91	93	90	94	86	85	85	86	90	79.3
Lexington	Minimum	39	40	35	36	49	54	58	57	55	51	47	45	48	40	43	50	45	57	61	62	62	62	61	64	65	63	68	67	64	61	66	53.9
	Maximum	65	61	63	70	80	85	80	77	74	80	72	66	66	70	70	73	83	86	75	75	81	83	89	91	91	90	85	87	86	84	88	77.8
Louisville	Minimum	46	43	40	41	51	56	62	61	59	54	54	47	52	48	49	55	52	61	65	62	65	66	64	66	68	68	71	70	66	65	68	58.0
	Maximum	66	61	63	71	81	84	80	72	75	80	72	68	68	72	71	78	83	87	76	76	81	82	88	91	92	92	86	87	81	86	86	78.4
Do. Bowman Field	Minimum	45	41	38	37	47	51	60	56	55	50	55	46	49	43	46	53	47	57	61	63	64	65	62	63	66	64	70	70	65	61	66	55.4
	Maximum	69	65	62	73	80	82	77	74	74	80	74	68	62	70	74	76	81	88	76	79	83	86	87	86	90	87	85	86	85	85	81	78.4
Mammoth Cave	Minimum	41	37	35	31	34	44	61	57	55	44	53	49	48	35	38	47	40	48	57	61	63	58	58	61	58	64	68	68	61	56	61	51.4
	Maximum	70	65	61	71	78	81	78	74	76	81	76	67	67	71	69	74	82	87	84	74	80	85	88	86	90	90	84	86	86	87	84	78.4
St. John	Minimum	44	39	37	36	41	48	53	55	56	45	54	47	52	39	43	49	44	52	59	60	61	61	61	64	63	64	68	68	61	59	63	53.1
	Maximum	65	60	61	68	77	82	79	71	71	78	72	66	67	70	67	71	80	86	74	74	79	84	84	89	89	91	87	86	81	87	85	76.9
Shelbyville	Minimum	38	36	39	38	46	51	54	52	57	47	54	42	50	40	43	49	44	54	59	60	62	59	60	62	64	61	68	66	60	58	62	52.6
	Maximum	70	71	64	72	79	84	77	76	74	81	77	70	62	74	71	77	86	90	80	80	82	87	88	89	91	90	86	87	85	85	84	79.6
Smith's Grove	Minimum	46	43	40	41	51	56	62	61	59	54	54	47	52	48	49	55	52	61	65	62	65	66	64	66	68	68	71	70	66	65	68	58.0
	Maximum	66	61	63	71	81	84	80	72	73	80	72	68	68	72	71	78	83	87	76	76	81	82	88	91	92	92	86	87	81	86	86	78.4
Stearns	Minimum	45	41	38	37	47	51	60	56	55	50	55	46	49	43	46	53	47	57	61	63	64	65	62	63	66	64	70	70	65	61	66	55.4
	Maximum	69	65	62	73	80	82	77	74	74	80	74	68	62	70	74	76	81	88	76	79	83	86	87	86	90	87	85	86	85	85	81	78.4
Taylorsville	Minimum	41	37	35	31	34	44	61	57	55	44	53	49	48	35	38	47	40	48	57	61	63	58	58	61	58	64	68	68	61	56	61	51.4
	Maximum	70	65	61	71	78	81	78	74	76	81	76	67	67	71	69	74	82	87	84	74	80	85	88	86	90	90	84	86	86	87	84	78.4
Williamstown	Minimum	44	39	37	36	41	48	53	55	56	45	54	47	52	39	43	49	44	52	59	60	61	61	61	64	63	64	68	68	61	59	63	53.1
	Maximum	68	64	62	73	80	82	83	75	74	80	74	68	66	72	72	76	85	87	81	77	84	84	89	85	90	89	83	87	83	84	83	79.5
	Minimum	40	39	36	34	46	46	52	58	60	47	55	47	53	40	40	50	43	50	57	63	62	65	60	59	61	63	61	68	71	64	60	53.1
Eastern Division.	Maximum	72	66	69	68	72	78	84	80	80	66	78	76	70	58	70	70	75	82	85	77	74	79	85	89	80	89	87	85	85	84	83	77.3
Annville	Minimum	41	37	35	31	38	42	47	53	58	48	48	49	53	34	36	44	42	46	53	59	59	60	57	58	64	59	62	67	64	63	61	50.6
	Maximum	62	62	63	71	80	87	86	84	72	80	75	71	63	72	73	73	83	88	90	89	81	83	84	89	93	92	92	90	88	86	89	80.3
Ashland	Minimum	36	42	37	35	45	48	51	58	62	51	51	46	51	38	38	46	49	51	55	62	61	62	61	61	61	61	67	71	64	62	64	53.2
	Maximum	67	62	60	69	78	85	82	78	68	78	74	67	63	69	70	70	83	87	85	84	82	85	88	91	87	88	88	85	85	85	86	78.4
Berea	Minimum	47	39	35	35	46	52	59	58	57	51	58	48	38	40	41	54	44	58	62	63	62	61	60	60	65	63	62	68	65	63	64	54.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Cumberland	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	63	59	64	73	79	86	82	83	62	78	71	69	70	73	72	74	83	89	73	72	79	82	87	89	81	89	82	85	88	86	85	77.7
Farmers	Minimum	40	35	32	32	41	44	50	54	60	48	52	42	50	37	36	46	44	48	53	61	59	61	59	59	61	59	64	66	62	60	62	50.9
	Maximum	73	60	60	70	74	81	87	81	81	69	80	74	71	68	73	72	76	82	88	81	77	80	85	90	91	86	88	88	87	86	86	79.4
Heidelberg	Minimum	41	37	35	33	41	44	50	56	60	51	51	51	61	56	40	38	47	43	48	54	60	61	60	61	60	63	65	72	64	63	72	52.5
	Maximum	62	61	60	71	80	86	86	83	72	80	78	72	66	73	74	74	83	88	74	77	80	85	91	90	92	92	90	88	86	89	91	80.4
Maysville	Minimum	40	38	34	34	43	49	53	58	62	48	57	43	49	39	38	52	48	51	55	62	59	63	62	61	63	61	67	70	67	62	66	53.3
	Maximum	71	64	65	74	81	82	77	76	71	80	83	74	68	..	73	70	79	83	79	74	84	82	79	84	83	88	85	84	85	83	82	°78.1
Middlesboro	Minimum	44	38	34	32	37	42	48	58	60	53	47	52	52	..	42	46	50	47	54	63	62	61	61	60	61	60	61	62	65	64	64	°52.4
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	66	60	65	74	82	87	85	81	75	83	80	74	65	74	75	76	83	92	86	80	86	86	90	92	90	92	90	88	89	90	84	81.4
Pikeville	Minimum	46	40	35	34	40	49	49	57	63	56	58	52	53	42	44	46	52	50	56	61	60	62	62	65	64	63	62	67	66	66	66	54.2
	Maximum	66	64	63	74	80	84	85	75	72	80	83	75	71	72	73	76	82	83	76	77	76	88	83	82	82	84	80	84	85	87	89	78.4
Pippapass	Minimum	38	37	32	32	39	43	49	54	60	54	50	50	50	51	39	43	48	48	54	55	58	60	60	62	59	63	65	65	65	63	63	52.3
	Maximum	80	63	67	71	82	89	86	85	84	81	80	76	63	76	78	78	85	90	83	85	85	92	93	86	89	89	87	..	..	..	88	b81.8
Quicksand	Minimum	34	37	35	31	39	41	47	53	54	52	49	48	49	38	36	42	46	46	53	57	59	60	60	59	62	59	63	62	..	..	62	b49.4
	Maximum	72	62	65	72	80	85	80	75	64	75	70	70	65	70	70	73	80	88	78	75	80	80	85	90	88	90	86	84	84	85	88	77.7
Richmond	Minimum	43	41	37	40	50	56	63	60	62	53	60	60	54	45	46	55	50	60	65	62	65	63	63	66	70	65	70	68	65	66	68	57.8
	Maximum	70	71	75	76	81	70	75	80	72	80	76	78	76	77	74	74	81	84	81	78	83	80	85	90	91	90	89	88	86	88	90	80.3
Williamsburg	Minimum	42	40	38	40	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	61	55	60	68	77	82	79	75	66	76	72	68	62	69	70	69	81	86	78	77	81	82	87	89	86	88	82	83	83	85	87	77.0
Winchester	Minimum	39	38	34	40	46	62	59	58	61	52	67	45	52	45	41	52	55	56	61	60	63	62	64	63	68	62	67	68	64	63	66	54.3

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*,°,+ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville, 5 25 39 11m

5102
NKE
1.99
No. 6

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

THE LIBRARY OF THE
JUL 29 1939
UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., JUNE, 1939 No. 6

GENERAL SUMMARY.

The showers of the first four days benefited all crops and conditioned the soil for the completion of plowing and corn planting. This period of rains afforded the first good opportunity for hand transplanting of tobacco in the hilly districts. Heavy to excessive rains in the second week rendered the ground too wet to be plowed in most sections. Except for one brief period of fair weather near the middle of the month, showery weather continued through the third week. This prolonged wet spell favored obtaining complete stands of tobacco, and caused late settings to start promptly and grow rapidly. Potatoes and gardens improved at first but suffered later from lack of cultivation. The abundant moisture and normal temperatures brought corn forward very rapidly; but weediness became serious before general cultivation was possible. Most corn had received only one plowing before the rains set in. A week of more favorable weather at the end of the month permitted good progress with the delayed field work. Considerable corn received its second and final plowing, and was left with more weeds and grass than desirable. Later plantings of corn and most tobacco were well cultivated at this time. Heavy rains in parts of the bluegrass region delayed the work in a limited area.

The showery weather hindered all phases of haymaking. It came, however, in a period between the alfalfa crops and ahead of timothy harvest; but much clover hay was lost or damaged. Wheat harvest was carried on with difficulty, and some grain shocks that were soaked too frequently suffered injury. Threshing began in the fair weather of the last week. Only a few days were favorable for the use of combines, and some wheat was lost while waiting for these machines. Heads were beaten to the ground by the excessive downpours. The rainfall was less and farm progress better in the cotton district and the extreme western counties. Oats heads improved but the straw remained short. Pastures became luxuriant and also very weedy. Except for more than the usual amount of weediness, the staple crops were generally in excellent condition at the end of the month.

TEMPERATURE.

Brief periods of moderately cool weather centered about the 5th, 13th, and 24th, otherwise the temperature on most days averaged a few degrees above normal. Mean temperatures at stations in the extreme western part of the State were near normal, while at eastern stations they ranged from 2° to 3° above. The coolest weather occurred on the 5th and the warmest late in the first week or near the middle of the month. Extremes for the State were 97° on the 16th at Pippapass and 47° on the 5th at Mammoth Cave.

PRECIPITATION.

Precipitation averaged about fifty per cent more than the normal amount for this month. It ranged from 3.0 inches in the extreme western counties to 10 inches or more in some central districts. The blue-grass region, west-central counties, and extreme northern areas received from 6 to 10 inches. To the east, south, and west of this wet section precipitation fell off to less than 4.0 inches near the boundary. Most of the rain occurred in the form of local thundershowers, with very irregular distribution. Rainfall was moderate to heavy in the periods, 1st-4th, 7-14th, 17th-23d, and 28-30th. Excessive downpours were recorded at many central stations on the 18th. The range for the State was between 2.43 inches at Paducah (near) and 12.80 inches at Richmond. Days with thunderstorms were: 2, 3, 4, 6, 7, 8, 9, 10, 11, 18, 19, 20, 21, 22, 26, 27, 28, 29, 30.

MISCELLANEOUS.

June 11.—A windstorm caused minor damage to wire systems and roofs in Jefferson County.

June 18.—Excessive rains caused floods along Rolling Fork in Marion County, with damage to crops and buildings estimated at $200,000. Similar floods in Logan Creek, Lincoln County forced about 50 families from their homes at Hall's Gap and vicinity, and caused considerable loss of livestock and crops. Damage to crops by flooding also occurred along Nolin Creek and creeks in Boyle, Casey, LaRue and Pulaski Counties.

Rivers.—Rains of the 18th-23d produced a moderate swell in the Ohio. The river subsided slowly until the 29th, when another slow rise started in the upper section.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity			Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	7 a. m.	12 noon	7 p. m.	
Cairo .....Ill.	29.95	30.26	4	29.62	10	7.0	32	sw.	9	87	66	67	69
Cincinnati .....Ohio	29.98	30.28	4	29.66	10	6.4	30	nw.	30	87	65	72	64
Evansville..... Ind.	29.96	30.25	4	29.69	10	8.3	36	sw.	10	82	60	62	67
Louisville .....Ky.	29.97	30.26	4	29.63	10	8.4	36	nw.	10	83	61	66	67

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation		Number of days			
	Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	70.6	99	38	5.27	..	..	..	..	..
1890	78.4	101	51	4.96	..	..	..	..	..
1891	77.1	97	51	4.48	..	..	..	..	..
1892	75.8	101	48	4.23	..	..	..	..	..
1893	73.3	97	48	4.64	..	..	..	..	..
1894	75.6	102	35	2.69	..	..	..	..	..
1895	75.9	104	47	3.63	0	..	15	10	5
1896	73.5	98	46	4.64	0	10	11	12	7
1897	73.4	101	41	3.61	0	9	14	12	4
1898	76.2	101	45	3.90	0	9	15	12	3
1899	76.1	100	44	2.80	0	8	15	10	5
1900	73.9	100	40	6.14	0	14	8	12	10
1901	75.6	104	42	3.97	0	9	15	9	6
1902	73.4	101	39	4.75	0	11	13	9	8
1903	68.6	96	37	3.61	0	10	14	8	8
1904	73.2	99	48	3.14	0	11	14	10	6
1905	74.8	106	45	4.49	0	10	16	6	8
1906	73.9	99	42	4.53	0	11	14	8	8
1907	70.2	95	41	4.91	0	11	12	9	9
1908	73.4	102	43	4.36	0	7	17	8	5
1909	74.5	99	43	5.03	0	14	10	11	9
1910	70.0	99	36	5.20	0	10	15	8	7
1911	75.2	106	45	4.06	0	10	17	7	6
1912	70.2	95	38	3.48	0	10	13	8	9
1913	75.0	107	38	2.87	0	7	19	6	5
1914	78.3	108	45	2.30	0	5	18	8	4
1915	71.7	95	42	4.79	0	12	12	10	8
1916	70.1	99	45	4.94	0	11	13	10	7
1917	70.9	100	39	4.30	0	10	15	9	6
1918	73.6	104	37	3.63	0	8	16	8	6
1919	76.7	103	51	4.00	0	10	14	10	6
1920	71.9	100	44	3.12	0	7	17	6	7
1921	77.8	100	46	2.90	0	8	14	11	5
1922	75.4	100	44	3.10	0	9	14	10	6
1923	73.8	99	42	4.59	0	9	16	8	6
1924	74.2	99	42	4.39	0	12	13	10	7
1925	77.0	105	48	3.90	0	7	16	8	6
1926	70.9	98	42	3.45	0	8	15	9	6
1927	70.4	98	42	4.13	0	11	14	8	8
1928	69.5	93	45	0.88	0	18	7	10	13
1929	71.7	97	37	4.11	0	9	17	7	6
1930	73.1	104	38	1.76	0	6	19	7	4
1931	75.8	106	39	2.80	0	8	17	8	5
1932	74.8	103	40	4.88	0	11	13	10	7
1933	76.5	105	39	1.57	0	4	21	2	7
1934	77.4	105	50	4.58	0	6	27	2	1
1935	70.5	96	44	7.50	0	14	11	10	9
1936	76.1	110	40	0.81	0	3	21	6	3
1937	74.3	99	46	4.52	0	10	18	6	6
1938	71.8	95	45	3.98	0	11	13	9	8
1939	75.1	97	47	6.01	0	14	10	12	8
Period	73.9	110	35	4.16	0	10	14	9	7

†51-year averages.

Climatological Data for June, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	27	75.6	+ 1.4	92	6	50	5	35	4.52	+1.35	0.89	0	12	10	10	10	sw.	Eldred G. Yonng.
Calhoun	McLean	437	35	75.8	+ 1.7	96	6†	51	5	39	4.72	+0.86	1.00	0	16	11	6	13	.....	K. C. Bennett.
Earlington	Hopkins	420	45	77.2	+ 1.4	93	16†	52	5	35	4.49	+0.67	1.55	0	12	16	5	9	sw	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	5.01	+1.41	1.01	0	15	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	5.82	.....	1.69	0	9	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	74.3	− 0.2	91	16†	48	5	31	3.70	−0.46	1.45	0	11	14	14	2	s	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	7.03	.....	3.08	0	15	14	7	9	.....	A. R. Carson, Sr.
Henderson	Henderson	382	17	74.8	.....	95	25	52	5	35	4.17	+0.80	0.90	0	12	8	20	2	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	76.4	+ 1.0	94	6	57	5†	30	5.89	+1.40	2.48	0	12	14	16	0	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	75.4	− 0.1	91	26	56	14	32	3.26	−1.82	0.83	0	7	11	16	3	s.	Blaine Malone.
Mayfield	Graves	364	30	75.4	+ 0.4	91	16†	56	11	28	3.11	−0.69	0.55	0	12	13	16	1	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pat W. Wear.
Owensboro	Daviess	420	42	74.6	+ 0.5	93	16	53	5	32	6.79	+2.88	1.91	0	15	18	4	8	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	6.72	+2.60	2.09	0	16	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	77.8	− 0.1	95	17†	56	11	26	3.02	−1.20	1.01	0	13	11	18	5	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	76.2	+ 0.1	93	26	56	5	31	2.48	−1.36	0.64	0	8	14	12	4	.....	Joe Lagore.
Princeton	Caldwell	529	32	76.8	+ 1.5	92	15†	57	5	32	4.12	+0.02	0.89	0	13	8	19	3	s.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	4.87	+1.26	1.48	0	16	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	73.0	− 1.0	91	26	53	5	32	4.07	+0.43	1.25	0	13	7	13	10	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	4.10	+0.37	1.08	0	15	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 40	Breckinridge	352	11	.....	.....	.....	.....	.....	.....	.....	7.22	+3.32	3.35	0	17	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	73.6	+ 1.5	88	7	53	15	32	6.66	+2.99	1.68	0	11	17	5	8	sw.	C. E. Barret.
Bowling Green	Warren	500	43	77.1	+ 1.1	94	20	57	5	31	5.12	+1.06	1.80	0	11	7	15	8	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	6.73	+2.49	2.65	0	14	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	3.25	−0.94	0.42	0	16	.....	.....	.....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	4.75	+0.77	1.58	0	10	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	9.17	+5.10	2.40	0	16	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	74.1	.....	91	16	54	5	31	7.03	+3.12	1.43	0	17	5	18	7	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	76.5	+ 2.6	93	5†	53	5	32	5.88	+1.54	1.17	0	15	9	12	9	s.	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	5.48	.....	1.88	0	15	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	.....	.....	.....	3.75	−0.50	0.60	0	12	2	14	14	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	75.4	+ 1.7	92	16†	53	5	34	6.48	+2.37	1.07	0	17	8	18	4	sw.	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	7.19	+3.18	0.96	0	15	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	76.1	+ 2.0	92	7†	54	5	34	4.08	+0.46	1.31	0	14	7	23	0	sw.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	4.67	+0.92	1.40	.....	.....	15	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	74.6	+ 1.4	93	27	50	5	37	5.63	+1.20	0.99	0	17	0	2	28	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	4.26	+0.22	0.95	0	18	.....	.....	.....	sw.	Lockmaster.
Irvington	Breckinridge	646	41	75.9	+ 1.9	90	7†	56	5	28	7.16	+3.15	2.47	0	10	9	9	12	sw.	W. J. Piggot.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	9.72	.....	1.98	0	14	8	13	9	.....	J. C. Ogg.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	9.18	+3.97	2.33	0	15	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	75.0	+ 1.7	90	26†	53	5	31	10.28	+6.19	3.23	0	16	8	19	3	sw.	H. H. Willis.
Lexington	Fayette	989	55	74.8	+ 2.6	93	16	54	5	34	7.66	+3.61	2.02	0	19	13	5	12	.....	U. S. Weather Bureau.
LittleHickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	9.86	+5.52	2.12	0	15	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	8.68	+4.30	1.78	0	14	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	75.8	+ 1.1	91	26	56	13	24	7.09	+3.18	2.24	0	19	10	13	7	sw.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	553	1	75.2	.....	92	26	55	5	29	6.99	.....	1.12	0	16	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	74.0	.....	91	20†	47	5	38	8.50	.....	3.31	0	15	6	16	8	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. O. Cooper.
Munfordville	Hart	690	10	.....	.....	.....	.....	.....	.....	.....	8.99	+3.89	2.06	0	14	.....	.....	.....	.....	Chester Williams.
St. Joun	Hardin	777	43	74.7	+ 2.2	90	7†	52	5	32	8.96	+4.70	3.06	0	15	11	11	8	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	7.08	+2.66	1.00	0	16	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	73.4	+ 0.1	92	7†	53	5	32	5.36	+1.35	1.38	0	15	6	1	23	s.	Willa S. Ratta.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	6.73	.....	1.89	0	13	8	20	2	sw.	C. W. Cuernsey.
Smith's Grove	Warren	607	1	75.2	.....	92	26†	54	5	33	4.93	.....	1.70	0	10	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	73.5	.....	91	7	54	5	33	4.67	.....	1.12	0	15	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	74.6	+ 2.0	90	8*	51	5	34	7.83	+3.56	2.55	0	13	19	10	1	w	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	4.54	−0.03	1.62	0	13	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	75.1	+ 2.9	93	7†	54	14	33	8.29	+4.66	2.80	0	17	15	7	8	s.	Miss Nettie B. Simpson.
Woodbury, Lock 4 ‡	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	5.75	+1.35	2.44	0	13	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	73.3	.....	92	17	50	5	37	4.05	.....	1.14	0	17	4	16	10	sw.	W. A. Worthington.
Ashland	Boyd	534	22	75.2	+ 1.9	96	16	54	5	33	3.56	−0.56	0.84	0	11	11	9	10	w.	Lockmaster.
Berea	Madison	1070	36	75.8	+ 2.9	96b	21	52	5	34	5.53	+1.03	1.09	0	14	10	8	14	se.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	8.01	+3.90	2.10	0	17	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	70.6	.....	92	8	54	4	29	5.48	.....	1.05	0	12	16	7	7	.....	Olon Cook.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	4.73	+1.57	0.74	0	11	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	5.37	+1.22	0.87	0	15	.....	.....	.....	.....	Jessie Oldham.
Farmers	Rowan	606	32	73.9	+ 2.6	95	16	53	5†	35	6.21	+1.91	0.95	0	17	7	13	10	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	9.16	+4.72	1.51	0	16	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	23	.....	.....	.....	.....	.....	.....	.....	8.48	+4.47	2.49	0	19	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	689	9	.....	.....	.....	.....	.....	.....	.....	4.23	+0.79	0.96	0	11	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	3.19	−0.55	0.65	0	14	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	6.21	+2.79	1.50	0	10	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	4	75 7	.....	94	16	55	5†	35	6.43	+2.25	2.05	0	14	4	10	16	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	7.08	.....	2.38	0	13	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	6.69	+2.68	1.52	0	14	.....	.....	.....	.....	R. J Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	3.39	−1.37	0.80	0	9	.....	.....	.....	.....	Zeb Heston.
Maysville, Dam 33	Mason	524	41	75.6	+ 2.7	94	16	55	15	35	6.79	+2.74	0.91	0	17	8	19	3	s.	Lockmaster.
Middlesboro	Bell	1128	40	72.7	+ 0.3	92a	15	56a	5	32a	3.78	−0.84	1.48	0	14	8	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	4.19	.....	0.66	0	8	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	6.62	+2.32	1.54	0	17	.....	.....	.....	.....	Lockmaster.
Palmsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	4.69	.....	1.57	0	14	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	3	77.2	.....	93	17	60	5	30	6.15	+2.05	1.80	0	13	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	5	74.8	.....	97	16	55	6	39	4.73	.....	1.50	0	16	12	8	10	w.	Caney Run Com. Cen.
Quicksand	Breathitt	782	13	75.0	+ 2.9	95	16	55	5	36	5.09	+1.02	1.30	0	11	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	5.86	+1.35	1.39	0	11	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	74.8	+ 1.3	90	7†	60	12†	28	12.90	+8.82	3.50	0	17	11	6	13	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	6.59	+1.80	1.61	0	13	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	6.05	+2.03	1.12	0	16	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	..	.....	.....	.....	.....	.....	.....	3.23	−1.85	1.08	0	13	16	11	3	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	6.57	−2.22	2.97	0	12	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	961	.....	74.1	.....	88	7	55	5	27	8.77	.....	3.12	0	16	.....	.....	.....	.....	Airway Station.
State averages and extremes	.....	.....	.....	75.1	+ 1.2	97	16	47	5	39	6.00	+1.84	3.50	0	14	10	12	8	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for June, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam.....G.	.29	.26	.16				.89	.15	.70	.23	.47	.03					.56	.58			20								T.			4.52
Calhoun.....G.	.18	.13	.06					.02	.54		.65	.08	.15				.52	1.00	T.	.78	.05	.11	.01						.04	.40		4.72
Earlington [2].....G.	.26	.02					.15	.19	T.	.21	1.06		.23					1.55	.06	.28			.08							.37		4.49
Fords Ferry Dam 50[3].....O.	.53	.09	.03				.02	.08	.08	.92	.68		.13	T.				.84	.05	1.01	.25		.05						T.	.25		5.01
Gilbertsville[2].....T.	1.10		1.09				.78			.30	.39		.02					1.69					.20							.25		5.82
Greenville.....G.		.40	.05					T.	.30		.65	T.	.10				.42	1.45		.05	.13	.05								.10		3.70
Hartford.....G.	.32	.05	T.				.16	T.	.47	.01	1.04	.11	.03				.56	3.08	.70	.07	.06	.01							.42			7.03
Henderson.....O.	.90	.11						.10		.72	.01	.04					.19	.42	.44	.86	.09	T.							.78			4.17
Hopkinsville[2].....C.	.28	.04		2.48			.55	.05		.48	.40			.29				.97	.05			.05	.25									5.89
Lovelaceville.....M.	.70							.30	.60	.20		.10					.83					.53									3.26
Mayfield.....M.	.37	.02	.08						.27		.35	.18	.55				.52	T.	.02		T.	.47				.22		.06				3.11
Murray.....T.																																
Owensboro [3].....O.	.28	.18	.03	.37			.08	T.	.17	.08	.15		.11	T.				1.58	1.91	.45	.85	T.	.07						.51			6.79
Owensboro, Dam 46 [3].....O.	.31	.07	.07	.26			.07	.02	.17	.07	.14		.08					1.63	2.09	.50	.76		.04						.44			6.72
Paducah[2].....O.	.30	T.	.21						.15	.29	.65		.08	T.				1.01	.03	.02	.07	.03	.09						T.	.12		3.02
Paducah (near)‡.....O.	.48	T.						.18	.60	.64		.10					.85		T.			.04						.04				2.43
Princeton.....O.	.60	.25					.89		.05		.71	.02	.17				.72	.38	.02			.19						.02	.10			4.12
Ramsey, Lock No. 2 [3].....G.	.66	.05	.19	.02			T.	.02	.01	.64	.54		.24					1.48	.19	.78	.11	.04	.13							.42		4.87
Russellville [2].....G.	.33	.10	.01	.72					1.25	.06		.01	.18					.57	.30		.34		.07					.18				4.07
Uniontown, Dam 49[2].....O.	.78	.11	.07				.01	.01	.02	.63	.73		.05					.18	.09	.15	.09		.10							1.08		4.10
Central Division																																
Addison, Dam 45. [3].....O.	.17	.29	.20				.01	.02	.30	.38	.33		.01	T.				3.35	.51	.36	.51	.05	.22						.16	.33		7.22
Anchorage.....O.	.55	T.	1.48						.62		1.01	.03	.17				T.	1.68	.12	.71	.22	.05										6.66
Bowling Green [4].....G.	.58	.89		.38				.15	T.	1.80	.02			.05				.90	.30				T.					.30	.25			5.12
Brownsville, Lock No. 6[2].....G.	.40	.27	.01	.95			T.	.05	T.	1.23	.50		.01	.12				2.05	.32	.12	.07		.03									6.73
Burnside[2].....C.	.35	.13	.10	.06				.23		.14	.12		.14	.06				.15	.22		.25		.42					.40	.09	.39		3.25
Carrollton Lock No. 1[2].....K.	.45	.47	.06	.48					.36	.12	.40							1.58											.76	.07		4.75
Cold Spring, Dam 36[2].....O.	.17	.24	.30	.63						.18	.22		.70	.46				1.50	.12	.68	.06	.02	T.					.38	2.40	1.10		9.17
Danville[2].....K.	.46	.38	.26	.26					.63	.43	1.18		.05	.10				1.43	.80	.05	.30	T.	.08					.15	.11	.41		7.03
Dix Dam, Burgin.....K.		.20	.14					.52	.25	1.17	.12	.10				.98	.92	.90	.12	.25							.11	.05			5.88
Eadsville [2].....C.	.64	.07		.52						.04	.13		.08	.02				.03	.10		.21		.28				1.88	.87		.18	.43		5.48
Eubank.....C.				.43				.80	.19		.20			.33			.20		.50		.60	.20					.15		.40	.25		3.75
Frankfort, Lock No. 4[2].....K.	.29	.27	T.	.40				.49	.17	.16	.66		.81	.08				1.07	.66	.25	.91	.13	.03					.15		.47			6.48
Gest, Lock No. 3 [2].....K.	.50	.47	T.	.48				.80	.28	.70	.90		.22	.04				.92	.96	.27	.07	T.							.11	.47			7.19
Glasgow.....G.	.31	.30	T.	1.31		T.		.08		.30	.05			.07				.77	.33	.09			.05					.28	.05	.09		4.08
Grant, Dam 88[2].....O.	.11	.09	T.	.15				T.	.04	.08	.22		.62	.08				1.40	.02	.32	.17	.02					T.	T.	.82	1.03		4.67
Greensburg[2].....G.	.30	.68	.01	.40			.04		.45	.49	.37		.01	.35				.60	.99	.14	.12						.10		.16	.47		5.63
High Bridge, Lock No. 7[2].....K.	.15	.09	.03	.07				.07	.49	.72	.95	.03	.17	.01				.51	.41	.12	.13		.02						.07	.22		4.26
Irvington.....O.	.60	T.	.30				T.		2.47		.29	T.	T.				.66	1.75	.36	.26	.15	T.					T.		.82			7.16
LaGrange.....O.	.65	.25	.57				T.		1.98		.61			.34			T.	1.60	.05	1.49	.06	.02			T.	.05		.17	1.88			9.72
Lancaster[2].....K.	.50	.35	.32				.82	.45	.10	1.26		.03	.02				1.75	2.33		.60	.68	.02						.45				9.18
Leitchfield [2].....G.	.29	.37	.03	.52			1.53	.22	.09	.22	.63		.03					3.23	1.30	.55	.81	.06							.41			10.28
Lexington ‡.....K.	.35	.05	.44				T.	.17	1.26	.15	.15	.05	.41				.17	.92	.33	.04	.01	.18	.01				.72	2.02	.18	.01			7.66
Little Hickman, Lock No. 8 [2]†.....K.	1.14	.46		.25				T.	1.46	.05	1.28		18	T.			2.12	2.05	.10	.20		.01					.10	.06	.26	.21			9.86
Lockport, Lock No. 2 [2].....K.	.43	.24	.07	.53				1.75	1.03	.18	1.11		.83	T.				1.01	.48	.49	.14							.86				8.68
LOUISVILLE [2].....O.	.56	.09	.55				T.	.02	.76	.92		.05	.11				.80	1.44	.58	.62	.13	.04					.03	T.				7.00
Do. Bowman Field.....O.	.28	.23	.68	.70					.08	.77	1.13		.11	.02				1.05	1.12	.10	.22	.19	.10						.22	T.			6.99
Mammoth Cave[2].....G.	.22	.32		1.17			.07	.03	.01	1.36	.90		T.	.91				3.31	.02		.02		.01					.11	.04			8.50
Monticello [2].....C.																																
Munfordville [2].....G.	.23	.84	.15	1.11			.14	.33	.10	.42	.79			1.04				2.66	.10	T.	1.13									.55		8.99
St. John [2].....S.	.19	.35	.06	1.21					.18	.16	.94		.11	T.				3.06	1.08	.44	.94	.13	.08							.03		8.96
Salvisa, Lock No 6 [2]†.....K.	.48	.07	.28	.04				.10	.06	.83	.98		.44					1.00	.83	.13	0.23	.87						.29	.96			7.08
Shelbyville[2].....S.	.07	.62		.27					.13	.15	.58		.17	.14				.98	.17	.45	1.38	.03	T.				.08		.14	T.			5.56
Shepherdsville.....S.	.41	T.	.85	.04			.64	.05	.05	T.	.45	.07	.08				.20	1.89	T.	1.04	T.	T.	T.						.93				6.73
Smith's Grove.....G.		.26	.02	.91						1.76	.15			.30				.52			.16		.02						.89				4.93
Stearns.....C.	.14	.01	.46	.17				.95	T.	1.12	.17		.12	.14				.10	.18	.01			.47						.86	.83			4.67
Taylorsville.....O.	.43		.50						1.75	.35	.40		.20				.30	2.55	.25	.90								.20				7.83
Tyrone, Lock No. 5 [2]†.....K.		.47		.30			T.		.16	.05	.60		.30	.08				1.62	.19	.08	.06	.58			T.		.05					4.54
Williamstown [2].....L.	.10	.50	.16	.85				.80	.05	.02	.50		.65	.10				.75	1.00	.16	.10	.15					.10	2.80				8.29
Woodbury, Lock No. 4[2].....G.	.62	.08		.64					.04	.40	.78		T.	.12				2.44	.06	.10	.36		.07						.04				5.75
Eastern Division																																
Annville [2].....C.	.05	.35	.03	.04				T.	.48	.56	.07		.05	.04				.04	1.14	.06	.47		T.					.03	.07	.25	.87			4.05
Ashland [2].....O.		.59		.16						.21	.84			.10				.30	.24			.45	.28						.10	.39			3.66
Berea.....K.	.87	.22		.12				.99	.58		1.09		1.04				.05	.25		.40	.05							.01	.35	.01			5.58
College Hill, Lock No. 11[2].....K.	.10	.17	.03	.49				.24	.82	.92	.78		.08					.55	2.10	.10	.38	.25	.11						.18	.71			8.01
Cumberland.....C.	.01	.03	.41						.34				1.05	T.					.61	.05	.03								.20	1.00	.77			5.17
Cynthiana [2].....L.		.51	.58	.42				.11	.10		.47	.49	.52					.74	.21	T.			.03						.55				4.73
Falmouth [2].....L.	.21	.39		.87				.01	.03	.17	.70		.40	.28				.57	.17	.14	T.	.03							.64	.76			6.37
Farmers [2].....L.	.04	.17	.12	.32			.06	.69	.71	.16			.09					.37	.63	.55	.16	.58	.45						.21	.95			6.21
Flemingsburg [2].....L.		.49		.69				.28	.19	.25	1.51		.45	.16				1.42	.67	.64	.39	.27	.22							.84	1.19			9.16
Ford, Lock No. 10 [2]†.....K.	.27	.47	.03	.28				.02	.10	2.49	.54	T.	.18	.02				1.40	.65	.08	.29	T.	.20				.06	.28	.56	.56			8.48
Grayson [2].....O.		.20		.15						.31	.81			.16				.50	.53			.29	.32						.96	.10			4.13
Greenup, Dam 30[2].....O.	.01	.06	.12	.65						.10	.20		T.	.05				.49	.12		.17	.11	.88						.48	.30			3.19
Hazard [2].....K.				.40					.15					.45					1.50	1.23	.03							.25	.20	1.25			6.21
Heidelberg, Lock No. 14[2].....K.	.03	.08	.41	.51					.04	.05	.52		.03	T.				2.05	.67	.40		.03						T.	.30	1.31			6.48
Jackson [2].....C.	.02	.32	.45				.10	.52		.62	.02		T.					2.38	.11								1.80	.22	.76	.26			7.08
Jenkins [2].....B.	.85	.18		.51				.55		.85				.81				.85	.05	.95	.87		.05				.02	.40	.08	1.52			6.69
Louisa [2].....B.	.20			.58					.08	.38								.88	.20			.80						.32	.45			3.39
Maysville, Dam 33[2].....O.	.22	.36	.09	.69			T.	.14		.07	.57		.61	.22				.49	.49	.91	.15	.27	.03						.67	.81			6.79
Middlesboro.....L.	.04	.85	1.48	.05					.04		.20		.07	.06			.09	.52		.14			.06					.02	.17			3.78
Mount Sterling.....L.																																
Oneida [2]†.....K.		.66		.53								.32						.33	.66	.68								.62		.44		4.19
Oneonta Dam 35 [2].....O.	1.00	.21	.14	.35			T.		T.	.66	.24	.03	.25	.35				1.10	.05	.29	.09	.08	.05					T.	1.54	.25			6.62
Paintsville [2].....B.	.05	.02	.02	.51					3.1	1.57	T.							.21	.96	1.00	.01	.03	.38					.38	.11			5.59
Pikeville.....B.	.17	T.	T.	1.80				.33	.31	.85				.21				.01	.81	.35	.44	T.	.01				T.	.03	T.	.80			6.15
Pippapass.....K.	.10	.18	.03	.50				.73	.10		.15		.06	.09				.05	1.50	.08			.01					.15	.40	.60			4.78
Quicksand [2].....K.	.11		1.30	.57			.20	T.	.10									.59	1.10		.01							.21	.26	.64			5.09
Ravenna, Lock No. 12[2].....K.	.06	T.	T.	.62				.06	.61	.94	.97		T.	T.				.10	1.39	.09	.50							T.	T.	.52			5.86
Richmond [2].....K.	.45	.18	.10	.50			.20	1.90	1.80	.80		.15	.05				1.10	1.20		.75	.05	.10						.10	3.50				12.90
Valley View, Lock No. 9[2].....K.	.42	.52	.30							.62	.10		.18					1.26	.81	.05	.31	T.						.78	.13	1.61			6.59
Vanceburg, Dam No. 32 [2].....O.	.02	.67	.28	.05					.05		.45		.63	.21				.58	.55	.23	.05	.30	.15							.75	1.12			6.05
Williamsburg [2].....C.	.16		.18				T.	T.	.09	.14	.36			.12				.07	.05		.18		.43				.23	.08	1.08			3.23
Willow, Lock No. 13[2].....K.	.12	.27		.44				T.	.19	.86	.41			.01					2.97		.34						.15	.15	.68			6.57
Winchester.....K.	.44	.48		.74					.32	3.12	.46		.21					.75	.55	.19	.50	.08	.03				T.	.13	.41	.36			8.77

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3]Precipitation measured with recording gage. *Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for June, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.	Maximum	83	86	86	76	85	92	91	90	85	87	84	76	77	80	89	91	86	85	89	90	90	87	85	83	86	90	90	89	84	87	..	86.0
Beaver Dam	Minimum	66	69	67	61	50	63	66	69	66	63	57	63	56	57	68	70	72	71	70	70	70	73	66	60	58	64	66	69	71	67	..	65.2
	Maximum	83	87	90	83	90	96	96	95	92	92	90	79	79	85	93	92	87	86	90	90	90	89	87	87	88	92	92	90	87	88	..	88.8
Calhoun	Minimum	65	66	61	55	51	65	68	69	65	67	60	57	61	53	53	66	74	73	74	67	68	68	65	67	64	70	71	70	66	67	..	64.9
	Maximum	82	85	86	79	87	92	92	92	91	88	87	78	77	83	92	93	91	86	90	91	92	91	87	88	89	92	93	91	91	86	..	88.1
Earlington	Minimum	66	69	70	62	52	66	69	71	68	70	62	58	58	56	59	69	70	72	76	70	70	75	67	62	59	61	67	72	73	69	..	66.2
	Maximum	81	85	86	78	75	90	90	88	83	87	84	78	77	82	89	91	87	85	88	90	90	88	85	85	87	91	91	88	82	86	..	85.6
Greenville	Minimum	64	65	64	61	48	62	66	62	63	65	60	55	61	54	55	65	67	70	72	68	68	71	64	59	56	60	63	67	69	66	..	63.0
	Maximum	81	88	85	77	87	91	90	88	77	87	83	79	79	80	90	90	77	87	87	91	89	81	87	87	87	88	90	89	79	86	..	85.2
Henderson	Minimum	65	67	69	58	52	66	68	68	63	68	58	56	60	54	59	69	70	72	69	70	70	69	63	59	58	63	67	69	69	65	..	64.4
	Maximum	83	86	89	79	87	94	95	89	84	91	88	80	79	84	93	92	88	83	89	91	91	83	85	87	88	90	92	90	85	89	..	87.1
Hopkinsville	Minimum	65	67	66	65	57	65	67	68	65	66	63	57	65	57	59	67	71	71	73	70	77	70	64	62	61	61	65	67	69	67	..	65.6
	Maximum	80	84	86	77	85	89	85	90	86	85	85	73	73	80	90	90	85	87	85	90	90	84	86	85	88	91	88	88	82	87	..	85.2
Lovelaceville	Minimum	66	65	68	60	58	67	67	70	63	71	58	57	60	56	58	66	72	72	74	73	73	73	67	64	64	63	65	68	70	67	..	65.6
	Maximum	80	82	87	80	84	89	89	90	84	87	83	76	79	80	88	91	86	87	86	90	89	85	87	85	88	91	88	88	82	86	..	85.7
Mayfield	Minimum	64	68	66	62	59	66	67	68	63	69	56	58	63	57	60	68	70	71	72	70	72	67	63	65	62	63	65	66	68	66	..	65.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Murray	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	85	85	85	78	85	90	90	89	84	84	81	76	77	74	79	89	93	81	89	87	88	88	88	84	85	84	90	89	87	81	93	84.9
Owensboro	Minimum	57	65	63	60	63	61	67	67	65	65	60	57	60	57	58	66	71	70	70	67	67	71	64	61	61	68	68	66	69	69	65	64.3
	Maximum	82	83	86	80	88	93	94	94	85	89	78	76	79	84	94	95	79	90	89	95	94	88	90	89	90	94	93	92	84	88	..	87.8
Paducah	Minimum	68	67	70	66	60	68	70	72	64	67	56	60	65	60	60	70	74	72	76	74	73	76	66	67	64	66	66	69	72	72	..	67.7
	Maximum	79	83	86	83	85	89	90	90	86	86	80	75	80	82	89	90	87	87	86	89	89	86	89	87	90	93	89	89	84	89	..	86.2
Paducah (near)	Minimum	66	67	69	68	56	69	68	70	63	71	57	68	65	56	66	70	72	72	74	74	75	74	65	63	60	62	68	68	70	69	..	66.8
	Maximum	81	83	84	78	86	91	91	91	86	89	83	76	77	82	92	92	86	87	87	90	92	86	83	88	86	92	92	90	84	87	..	86.4
Princeton	Minimum	66	68	69	64	57	67	69	71	66	69	61	63	65	59	60	68	72	73	75	72	72	70	66	65	62	62	66	71	71	70	..	67.1
	Maximum	83	78	78	74	85	89	85	86	76	86	77	76	68	86	81	81	76	75	87	83	83	80	81	86	80	91	78	86	76	86	..	81.2
Russellville§§	Minimum	65	67	66	65	53	61	67	68	66	65	64	56	65	58	59	68	72	70	70	70	70	70	64	61	57	61	64	68	68	68	..	64.9
Central Division.	Maximum	80	83	83	76	81	85	88	85	85	84	81	78	71	71	85	87	82	81	87	83	87	83	87	80	84	87	86	86	87	81	..	82.5
Anchorage	Minimum	67	68	68	56	58	58	68	68	68	65	64	56	58	56	53	65	69	69	68	67	67	72	67	58	65	69	66	68	68	68	..	64.6
	Maximum	81	86	89	77	83	87	93	90	83	88	83	78	79	81	93	93	85	82	91	94	95	88	89	90	92	92	92	92	84	88	..	87.3
Bowling Green	Minimum	68	67	66	65	57	60	69	71	70	67	60	66	61	62	69	71	72	70	72	72	72	67	64	62	67	60	70	70	70	..	..	66.9
	Maximum	81	88	87	77	84	87	88	86	87	86	82	78	75	78	87	91	83	77	88	87	89	88	82	82	85	89	88	87	84	85	..	84.5
Danville	Minimum	61	68	67	60	64	57	66	68	65	65	62	55	62	58	56	65	66	69	70	67	68	70	67	58	56	66	67	67	62	67	..	63.7
	Maximum	82	88	88	80	85	93	89	87	89	87	85	80	76	86	89	93	92	76	90	87	92	90	86	84	87	92	89	89	85	87	..	86.9
Dix Dam	Minimum	70	69	70	60	53	62	68	72	68	67	65	68	63	58	60	66	68	72	72	70	70	72	70	65	57	66	69	70	73	70	..	66.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Eubank	Minimum	64	66	66	65	53	57	61	64	64	63	62	63	68	54	63	67	67	68	70	66	59	65	55	69	67	66	67	68	68	..	..	64.0
	Maximum	81	87	84	79	86	90	91	90	89	88	84	81	78	79	89	92	87	81	91	87	91	89	83	85	89	92	91	89	90	87	..	86.5
Frankfort	Minimum	69	67	67	57	53	56	69	69	66	65	64	57	58	57	55	64	68	68	68	69	67	71	69	58	59	64	67	69	69	67	..	64.2
	Maximum	90	84	85	87	85	90	92	92	84	87	85	77	75	82	91	91	88	88	88	89	91	91	84	85	80	89	90	88	82	84	..	86.6
Glasgow	Minimum	67	67	69	64	54	62	67	68	67	66	66	55	63	56	67	68	72	71	70	72	71	71	66	62	57	66	68	70	70	69	..	65.7
	Maximum	85	86	88	78	88	89	92	87	89	89	83	80	74	80	92	90	88	80	89	92	82	88	88	83	86	93	88	92	88	88	..	86.5
Greensburg	Minimum	64	65	65	62	50	63	63	66	65	65	62	63	62	56	55	64	66	68	67	69	67	62	65	60	59	62	64	66	68	66	..	62.8
	Maximum	82	86	85	78	84	84	90	89	85	86	83	76	74	79	88	90	87	81	87	86	87	87	82	83	86	89	90	89	85	84	..	84.7
Irvington	Minimum	67	70	69	61	56	66	71	71	65	68	63	59	60	59	63	69	74	69	72	70	70	75	68	62	62	67	76	72	71	68	..	67.1
	Maximum	80	84	87	77	84	89	89	87	84	86	78	78	77	79	88	89	82	83	87	89	89	87	84	82	87	90	90	89	82	85	..	84.7
Leitchfield	Minimum	66	68	67	67	58	66	66	70	66	67	62	66	61	61	60	68	68	69	69	71	71	67	60	60	66	68	69	69	62	66	..	65.3
	Maximum	84	89	85	77	88	89	90	88	88	89	78	79	70	78	90	93	87	73	89	86	91	87	83	84	85	92	89	87	83	86	..	85.5
Lexington	Minimum	68	68	67	58	54	58	68	67	65	64	59	55	59	57	58	68	71	70	69	69	70	62	59	60	69	70	69	68	68	68	..	64.2
	Maximum	81	86	84	76	83	85	89	88	85	87	74	76	71	74	88	90	85	83	88	88	86	87	81	83	87	91	89	88	83	84	..	83.8
Louisville	Minimum	69	71	68	62	60	67	72	73	69	65	64	61	56	61	64	70	72	68	69	71	70	72	69	65	66	71	73	73	73	71	..	67.8
	Maximum	82	86	84	76	84	88	91	89	86	86	75	76	72	78	88	91	86	83	88	88	88	82	85	88	92	91	90	82	85	..	..	84.6
Do. Bowman Field	Minimum	69	70	68	59	55	62	70	71	67	65	65	68	58	59	57	68	70	70	70	69	69	72	66	61	63	68	70	71	71	69	..	65.9
	Maximum	81	84	86	86	85	89	90	86	85	86	83	77	78	80	88	89	84	85	82	88	91	91	86	84	82	87	90	90	86	88	85	85.4
Mammoth Cave	Minimum	65	67	66	61	47	57	64	66	66	64	62	52	61	56	54	63	70	69	67	70	65	70	64	56	53	61	64	67	67	65	..	62.6
	Maximum	81	84	88	74	84	87	90	88	86	86	85	78	76	78	87	88	86	79	87	88	89	87	85	82	85	90	88	88	87	89	..	85.0
St. John	Minimum	65	67	75	59	52	61	65	69	64	64	60	66	60	57	56	65	68	67	68	67	67	71	65	59	58	72	66	67	68	64	..	64.4
	Maximum	79	84	83	76	85	85	92	88	86	87	82	76	72	75	88	92	79	79	89	84	88	87	80	82	86	90	88	89	81	84	..	84.0
Shelbyville	Minimum	65	66	64	57	53	57	66	68	64	63	61	55	56	54	55	64	67	69	67	66	66	71	65	66	59	66	66	66	67	65	..	62.7
	Maximum	83	86	87	76	87	89	90	85	85	78	76	80	80	91	80	81	88	90	91	87	84	85	90	92	92	92	89	82	85	..	..	85.3
Smith's Grove	Minimum	68	62	66	65	54	63	67	70	67	66	66	56	63	59	69	68	69	72	68	71	68	70	66	62	68	63	67	68	67	67	..	65.2
	Maximum	80	78	84	74	87	84	91	81	84	86	77	80	78	79	90	88	75	75	84	89	88	88	82	81	85	88	86	80	84	82	..	82.9
Stearns	Minimum	66	67	65	67	54	63	66	64	66	62	63	55	61	60	58	69	70	71	67	68	69	67	62	60	58	65	66	68	68	67	..	64.1
	Maximum	80	85	87	86	85	82	84	90	85	80	81	78	83	84	87	90	86	77	88	85	88	90	82	81	83	91	89	90	86	88	85	85.4
Taylorsville	Minimum	68	67	67	65	61	68	69	68	68	69	59	59	66	60	60	69	70	70	68	68	69	65	66	59	65	67	69	70	66	..	..	64.8
	Maximum	84	87	87	75	82	85	93	93	88	87	85	80	78	75	71	88	93	92	79	88	85	90	89	84	84	89	90	93	90	85	84	85.5
Williamstown	Minimum	68	68	68	58	57	59	70	70	67	65	60	65	56	54	65	68	72	70	68	67	69	72	66	60	60	66	69	68	69	67	..	64.7
Eastern Division.	Maximum	84	83	84	86	80	86	88	90	85	85	86	78	78	75	85	89	92	85	82	87	85	87	89	83	82	83	90	86	84	82	..	84.6
Annville	Minimum	67	66	65	64	50	66	63	64	63	62	53	53	63	57	54	52	64	64	69	70	65	66	66	56	53	64	66	65	64	66	67	62.0
	Maximum	86	88	87	79	87	91	93	89	88	83	81	77	74	90	96	93	85	80	86	82	89	78	86	88	91	92	81	79	86	..	..	85.5
Ashland	Minimum	71	67	70	63	54	58	61	69	66	64	66	58	63	59	54	63	70	72	72	71	68	70	66	68	61	62	64	70	70	70	..	65.0
	Maximum	85	89	..	87	86	87	90	88	85	88	89	..	78	78	88	92	89	80	89	86	96	89	85	81	88	93	90	88	88	89	..	b86.8
Berea	Minimum	66	69	..	61	52	58	65	66	65	66	65	..	57	70	66	66	66	68	70	69	69	71	66	58	56	68	70	71	65	68	..	b64.7
	Maximum	85	70	80	68	61	67	71	92	80	76	67	76	79	74	78	61	86	68	85	84	89	90	83	83	87	89	88	88	79	82	..	78.8
Cumberland	Minimum	64	65	65	54	56	60	61	70	61	61	56	61	63	64	66	65	67	65	67	62	60	55	69	62	61	66	66	66	66	..	..	62.3
	Maximum	84	84	79	75	84	88	88	86	86	87	87	78	76	77	88	95	94	77	81	82	76	85	85	83	88	88	88	87	74	85	..	83.6
Farmers	Minimum	70	67	68	61	53	53	62	65	61	61	65	55	61	68	82	61	69	70	71	70	67	68	62	57	58	63	66	67	67	68	..	64.2
	Maximum	86	83	89	82	88	90	92	86	86	89	82	80	79	81	91	94	89	85	90	84	88	90	86	84	89	91	90	85	85	85	..	86.6
Heidelberg	Minimum	69	67	67	65	55	66	64	68	65	63	63	55	64	62	56	64	67	73	69	70	68	67	66	66	66	66	69	69	69	65	..	64.8
	Maximum	84	87	84	80	85	90	90	92	81	79	74	76	80	94	93	92	84	88	90	90	90	81	84	92	90	93	89	86	86	..	..	86.4
Maysville	Minimum	69	67	69	58	56	57	65	67	67	64	65	58	59	55	65	71	71	70	69	71	68	59	62	65	66	69	69	68	..	..	..	64.9
	Maximum	85	83	85	81	88	90	91	88	89	88	82	85	79	83	92	90	85	85	87	86	89	..	87	88	88	88	90	88	82	..	..	b86.5
Middlesboro	Minimum	68	64	65	66	56	62	65	66	64	62	61	66	64	61	60	63	65	72	66	66	69	..	63	61	58	65	63	66	69	..	..	b64.1
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	84	90	90	83	90	89	89	89	88	83	82	87	80	76	81	89	88	93	90	90	89	95	94	86	86	88	92	92	88	84	85	87.9
Pikeville	Minimum	65	69	69	62	60	62	65	66	68	61	67	64	61	63	62	68	70	69	71	70	72	70	68	65	62	67	67	68	69	68	..	66.6
	Maximum	88	80	80	78	79	83	91	87	83	90	90	83	80	83	81	97	95	92	95	89	92	93	88	86	84	88	85	87	87	86	..	87.0
Pippapass	Minimum	65	63	65	61	56	55	60	65	63	62	62	61	61	62	60	58	58	60	59	66	68	68	60	56	62	60	61	66	68	66	..	62.5
	Maximum	88	88	87	81	87	92	88	88	88	90	87	91	91	90	92	80	87	91	93	90	91	89	87	91	90	85	84	89	93	91	86	87.2
Quicksand	Minimum	67	65	65	63	55	56	65	64	64	60	65	56	62	60	56	62	67	68	66	67	67	68	66	58	56	61	63	68	65	63	..	62.9
	Maximum	89	86	82	80	82	85	90	82	82	85	78	77	70	75	84	90	90	76	85	82	86	86	80	83	85	90	89	87	80	82	..	83.1
Richmond	Minimum	67	7	70	62	58	63	70	67	67	65	63	60	64	60	60	68	72	68	70	70	70	70	68	60	62	70	72	71	71	68	..	66.5
	Maximum	80	86	84	86	89	89	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	94	93	92	94	91	91	88	84	84	.....
Williamsburg	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	70	68	69	71	69	65	66	67	65	68	.....
	Maximum	81	85	85	78	83	87	88	84	79	83	77	78	72	77	85	89	84	78	86	86	85	86	86	81	81	86	88	85	85	79	83	82.8
Winchester	Minimum	68	69	69	59	55	61	66	67	66	64	63	57	60	58	57	68	73	70	69	69	69	72	68	61	60	68	70	69	70	68	..	65.4

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record

W B O Louisville 7 26 39 1100

1.05
KE
Nat. Hist

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

THE LIBRARY OF THE
AUG 30 1939
UNIVERSITY OF ILLINOIS

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., JULY, 1939 No. 7

GENERAL SUMMARY.

Heavy to excessive rains in east-central and northeastern districts from the 5th to 9th interfered seriously with cultivation of crops, threshing, oats harvest, and haymaking. They also caused much damage by washing of hillsides and overflow of bottom crops along creeks. Grain in the shock was damaged by repeated soakings. Rust appeared on tobacco in places in the burley area. In other parts of the State, the weather of the first two weeks was generally favorable for all phases of farm work. In the third week it became too dry on the uplands of the southern and western counties. This dryness continued in the Purchase and some counties east toward the lower Green until the end of the month. At that time upland corn in that region was deteriorating and pastures were short. Moderate to heavy rains in the last decade again visited much of the northeastern section. The frequent showers in that district kept the soil too wet for cultivation most of the time and contributed to increased weediness in late crops and pastures. Some damage resulted to the heavy growth of early soybeans. The rains late in the month reached the dry southern and central areas, so that growing conditions in most of the section east of the lower Green were satisfactory. In most of the State topping of tobacco proceeded with moisture sufficient to cause normal spreading.

Late potatoes were planted under more favorable conditions of soil and weather than usual. They were coming up at the end of the month. The cool moist weather toward the end caused field tomatoes to set fruit much better. High temperatures in the first half were unfavorable for this crop. Market and domestic gardens varied from poor in the west to very good in central and eastern districts. Forage crops grew remarkably well but showed irregularity on western uplands on account of dry weather. Plowing for fall seeding began near the close, with sufficient soil moisture available outside of the dry western district. The cotton crop fared well in the prevailing dry weather and ample sunshine of the southwestern counties.

TEMPERATURE.

Mean temperatures ranged from 5° to 10° above normal in the periods 4-8th, 13-14th, and 18th. Short intervals of moderately cool weather occurred at the beginning, near the middle, and at the end of the month. Maximum temperatures were rather high on a few days in the drier western counties but were usually moderate to low in central and eastern sections. The extremes for the State were 102° at Bowling Green on the 13th and 50° at several stations in the period 12-19th.

PRECIPITATION.

Precipitation averaged about 15 per cent more than normal, yet large areas in the western part of the State received much less than the seasonal amount. The distribution was exceedingly irregular, especially in central and western districts. In most of the eastern mountain counties the total rainfall ranged from 5.0 to 9.0 inches. It varied from normal to twice that amount in nearly all eastern section. There was also an area of heavy rains in the upper Green River Valley. The driest district extended from the northern counties of the Purchase east to the lower Green River Valley, with monthly amounts from 1.0 to 3.0 inches. The range for the State was between 0.8 inch at Princeton and 9.92 inches at Valley View. Light to heavy and very irregularly distributed rains occurred in the period 4-9th, 19th-21st, and 24-30th. Twenty-four hour amounts on the 4-5th on the western edge of the mountain section varied from 2.0 to 4.0 inches. Similar amounts were reported on the 19-20th and 24-25th from many central and eastern localities. Days with thunderstorms were: 3, 4, 6, 8, 9, 13, 15, 16, 17, 18, 23, 24, 25, 26, 27, 28, 29.

MISCELLANEOUS.

July 4-5.—A rain storm of about three hours duration, from 9:30 p. m. of the 4th to 12:30 a. m. of the 5th caused great damage and loss of life in Rowan and adjoining counties. A similar storm that began about 3 a. m. of the 5th caused even greater loss of life and enormous losses of property along Troublesome, Frozen, and Quicksand creeks in Breathitt County. Amounts of rain reported from unofficial gages in and about Rowan County ranged for the storm between 4 and 10.0 inches. The northern storm centered about Morehead and the southern about the Frozen Creek district. Total losses in these areas were expected to reach $5,000,000. Some details are as follows: Rowan County, 10,800 acres of crops; 1,000 chickens, 50 head of animals lost; 50 homes and 300 other farm buildings damaged. Elliott County, 50 persons dead; Lewis County, 2 persons dead; Bath and Fleming counties, 8,800 acres of crops lost; Breathitt County, 51 persons dead; Elliott County, damage along Little Sandy River estimated at $50,000; some damage in Morgan, Menifee and Wolfe counties.

July 24.—A man was killed by lightning after taking refuge in a garage at Sulphur Springs. A housewife was killed by lightning in her kitchen in Wayne County. Three brood mares and four foals were killed by lightning on Runnymede Farm near Paris.

Damage by hail, not yet estimated, was reported as the worst in 25 years in five bluegrass counties. The damage was heaviest in Bourbon, Nicholas, and Scott. Parts of Fayette and Montgomery counties also suffered considerable damage.

July 28.—One man was killed and seven were hurt when a windstorm caused a tree to fall on a truck of WPA workers south of Henderson. Trees, wire systems, and light structures were damaged in Henderson.

Rivers.—Except for freshets of unusual height in creeks of the western edge of the mountain region, streams showed no important fluctuations during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 6.30 a. m.	12.30 p. m.	6.30 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.96	30.22	11	29.84	17	6.4	39	n.	15	84	.	59	85
Cincinnati .....Ohio	29.98	30.25	11	29.78	13	5.2	21	n.	8	84	56	68	61
Evansville.....Ind.	29.97	30.22	11	29.82	28	6.9	35	nw.	26	80	54	59	74
Louisville .....Ky.	29.98	30.23	11	29.79	13	6.6	30	nw.	25	88	55	61	71

COMPARATIVE DATA FOR JULY.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1898	75.1	98	50	5.62	..	..	..	..	..
1890	73.0	101	44	2.66	..	..	..	..	..
1891	74.0	91	47	4.08	..	..	..	..	..
1892	76.5	100	48	3.30	..	..	..	..	..
1893	78.8	101	50	3.48	..	..	..	..	..
1894	76.2	105	43	2.03	..	..	..	..	..
1895	75.2	99	49	5.75	..	9	10	13	8
1896	77.4	103	47	7.44	0	11	11	12	8
1897	77.8	107	50	4.79	0	10	14	11	6
1898	77.8	102	48	4.71	0	11	13	13	5
1899	77.3	100	47	3.78	0	9	15	10	6
1900	77.9	101	50	4.91	0	11	15	11	5
1901	81.7	112	48	1.72	0	5	21	7	3
1902	78.1	107	48	1.91	0	6	19	9	3
1903	77.5	104	49	3.53	0	8	17	9	5
1904	75.2	99	46	3.40	0	10	16	9	6
1905	75.9	102	52	5.93	0	13	14	9	8
1906	75.2	100	51	6.02	0	11	14	9	8
1907	78.1	102	40	4.71	0	9	18	8	5
1908	76.9	100	50	3.94	0	10	16	8	7
1909	74.8	99	48	6.01	0	11	14	9	8
1910	75.2	96	51	8.63	0	16	10	9	12
1911	75.8	105	42	2.28	0	7	16	8	7
1912	76.8	100	53	5.50	0	12	13	10	8
1913	79.9	109	48	2.54	0	7	17	10	4
1914	78.3	109	43	3.20	0	6	17	9	5
1915	75.7	102	49	5.30	0	11	14	11	6
1916	78.6	102	52	4.17	0	9	17	9	5
1917	75.3	100	50	4.38	0	11	12	10	9
1918	78.8	103	46	3.28	0	8	15	9	7
1919	79.5	104	50	2.10	0	5	20	8	3
1920	75.2	99	44	3.83	0	9	16	9	6
1921	81.1	106	52	2.65	0	7	17	10	4
1922	76.4	102	47	4.77	0	9	17	9	5
1923	76.8	99	44	3.59	0	8	17	9	5
1924	73.8	99	45	3.63	0	8	18	8	5
1925	76.7	105	46	3.53	0	9	15	10	6
1926	77.6	107	43	4.36	0	9	16	9	6
1927	75.7	101	45	3.71	0	9	17	9	5
1928	77.0	100	50	4.07	0	8	17	10	4
1929	76.7	101	46	3.97	0	9	16	10	5
1930	80.5	114	45	1.25	0	5	21	7	3
1931	79.0	104	51	3.85	0	8	18	8	5
1932	78.5	103	49	4.31	0	8	19	7	5
1933	77.0	106	47	6.05	0	10	15	8	8
1934	81.2	110	7	4.34	0	10	15	10	6
1935	78.8	103	6	5.16	0	10	16	10	5
1936	81.4	113	46	3.78	0	10	15	10	6
1937	75.6	102	41	8.04	0	7	17	10	4
1938	77.2	100	52	7.27	0	11	13	9	9
1939	76.5	102	50	4.83	0	9	15	11	5
Period	77.1	114	40	4.19	0	9	16	9	6

†51-year averages.

Climatological Data for July, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	27	*77.8	0.0	98a	18	56a	12	32a	2.77	−1.21	0.73	6	6	13	9	9	s.	Eldred G. Young.
Calhoun	McLean	437	35	78.4	0.6	99	7†	55	15†	25	3.18	−0.32	1.00	0	8	18	7	6	.....	K. C. Bennett.
Earlington	Hopkins	420	45	80.0	+ 1.1	97	18	59	11	34	2.20	−1.25	0.67	0	7	22	7	2	sw	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	1.04	−1.18	0.52	0	8	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	481	.....	.....	.....	.....	.....	.....	.....	.....	1.41	.....	0.33	0	6	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	77.6	− 0.4	99	18	55	2†	36	2.46	−1.29	1.20	0	7	22	9	0	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	2.56	.....	0.94	0	11	17	10	4	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	78.4	.....	99	8	55	11	30	3.35	+0.16	1.04	0	8	11	20	0	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	78.8	− 0.3	98	8†	57	1	40	5.37	+1.64	1.87	0	8	21	10	0	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	78.5	− 1.3	100	6	58	30	32	3.37	−2.01	1.45	0	4	21	9	1	s.	Blaine Malone.
Mayfield	Graves	364	30	79.0	+ 0.1	99	7	58	1	30	4.22	+0.68	2.00	0	7	20	11	0	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pat W. Wear.
Owensboro	Daviess	420	42	77.4	− 0.4	95	13†	61	1†	29	4.17	+1.14	1.88	0	9	19	2	8	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	4.19	+1.88	2.30	0	10	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	80.8	− 0.5	101	5	60	1†	80	1.64	−1.84	0.82	0	5	22	5	4	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	.....	.....	102	7	58	1†	33f	2.02	−1.89	1.82	0	5	.....	.....	.....	.....	Joe Lagore.
Princeton	Caldwell	529	32	79.8	+ 1.2	97	7†	60	2	32	0.85	−2.99	0.33	0	7	9	20	2	sw.	Dr. W. L. Cash.
Rumsey, Lock 2‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	3.55	−0.47	1.02	0	10	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	599	26	76.0	− 2.2	98	18	55	12	36	3.55	−0.72	2.31	0	9	21	9	1	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	6.16	+2.99	2.85	0	7	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	852	11	.....	.....	.....	.....	.....	.....	.....	3.89	+0.81	1.30	0	9	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	74.4	− 1.9	92	13†	53	15	30	3.25	−0.85	1.01	0	7	19	9	3	sw.	C. E. Barret.
Bowling Green	Warren	576	43	75.4	− 3.9	102	13	60	12	32	3.62	−0.36	1.15	0	8	10	19	2	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	3.63	+0.23	0.92	0	9	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	3.31	−1.20	0.73	0	9	.....	.....	.....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	4.33	+0.98	1.34	0	7	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	499	13	.....	.....	.....	.....	.....	.....	.....	5.43	+1.55	2.10	0	11	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	75.2	.....	95	18	52	17	32	2.94	−1.72	0.75	0	8	13	10	8	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	77.6	− 0.2	96	7†	55	12	32	5.11	+1.06	1.47	0	9	12	15	4	se.	Kentucky Utilities Co.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	..	2.71	.....	0.74	0	8	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	76.8	− 0.4	98	18	54	17	33	5.97	+2.01	1.26	0	10	13	15	3	w	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	7.07	+3.11	2.90	0	11	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	477.9	− 0.8	96	18†	58d	15	35d	7.24	+2.71	1.89	0	11	16	15	0	sw.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	3.74	+0.17	1.35	0	8	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	76.4	− 0.2	98	13†	51	12	46	3.48	−0.40	0.88	0	9	1	4	26	n.	Mrs. Bettie K. H. Aleorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	4.01	−0.04	1.60	0	10	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Piggot.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	4.58	.....	2.26	0	7	19	4	8	sw.	J. C. Ogg.
Lancaster	Garrard	1032	18	.....	.....	.....	.....	.....	.....	.....	8.22	+3.83	4.90	0	10	.....	.....	.....	.....	Walter Killion.
Leitchfield	Grayson	635	43	77.0	− 0.1	95	13	56	12	31	5.98	+2.82	1.78	0	11	14	15	2	sw.	H. H. Willis.
Lexington	Fayette	989	55	76.0	+ 0.1	96	8†	55	16†	31	3.30	−0.35	0.65	0	14	15	10	6	.....	U. S. Weather Bureau.
Littlelickman, Lock 6	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	5.36	+1.66	1.03	0	9	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	6.95	+3.47	2.58	0	9	.....	.....	.....	.....	Lockmaster.
Louisville	Jefferson	459	66	77.9	− 0.7	95	18	62	11	24	5.91	+2.21	2.71	0	9	10	14	7	sw	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	1	77.2	.....	95	18	58	15	27	4.41	.....	1.80	0	9	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	75.1	.....	95	8†	50	12	37	5.96	.....	1.90	0	9	12	13	6	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	3.94	.....	1.51	0	6	13	11	7	.....	E. O. Cooper.
Munfordville	Hart	660	10	.....	.....	.....	.....	.....	.....	.....	6.23	+2.80	1.79	0	9	.....	.....	.....	.....	Chester Williams.
St. Joun	Hardin	777	43	79.2	+ 2.8	96	6	57	1	28	3.79	+0.46	1.10	0	10	10	12	9	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	4.18	+0.38	1.51	0	10	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	75.3	+ 0.1	98	18	52	15†	86	3.28	−0.55	1.26	0	10	12	0	19	s.	Willa S. Ratta.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	2.68	.....	0.82	0	6	14	16	1	w.	C. W. Guernsey.
Smith's Grove	Warren	607	1	77.4	.....	96	18	57	12	31	4.48	.....	0.94	0	9	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	75.0	.....	98	16	54	12	31	3.62	.....	0.70	0	12	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	76.4	+ 0.1	95	18	55	11†	28	5.80	+1.73	2.60	0	7	22	7	2	w.	Thad. Cheatham, Sr.
Tyrone, Lock 5‡	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	5.14	+0.96	1.50	0	8	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	75.9	− 0.3	94	7†	52	16	33	5.45	+1.89	2.25	0	12	17	2	12	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	3.60	+0.18	1.70	0	8	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	74.2	.....	94	19	50	17	34	6.75	.....	2.10	0	14	8	19	4	nw.	W. A. Worthington.
Ashland	Boyd	534	22	75.4	− 1.1	95	8	50	16	32	4.59	+0.40	1.76	0	13	11	10	10	ne.	Lockmaster.
Berea	Madison	1070	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	6.40	+2.48	1.69	0	11	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	74.0	.....	92	18†	50	11†	32	4.95	.....	1.00	0	11	20	5	6	w.	Olon Cook.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	4.59	+1.17	1.33	0	10	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	6.59	+2.94	2.85	0	14	.....	.....	.....	.....	Jessie Oldham.
Farmers	Rowan	668	32	75.2	+ 0.1	96	7	50	17	41	8.70	+4.32	2.55	0	13	7	15	9	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	6.62	+2.58	1.86	0	13	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	28	.....	.....	.....	.....	.....	.....	.....	5.07	+0.27	1.36	0	13	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	5.31	+1.10	2.80	0	8	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	3.69	−0.66	1.01	0	13	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	4.66	−0.38	1.10	0	11	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	668	4	76.2	.....	95	18	52	17	35	6.01	+1.30	1.69	0	12	7	13	11	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	9.06	.....	3.75	0	10	.....	.....	.....	.....	Jas. T Golf.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	6.20	+1.81	2.50	0	12	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	3.97	+0.42	1.02	0	11	.....	.....	.....	.....	Zeb Heston.
Maysville, Dam 33	Mason	524	41	76.0	− 0.8	96	7	52	16	32	5.87	+1.50	2.00	0	14	7	22	2	s.	Lockmaster.
Middlesboro	Bell	1128	40	74.8	− 0.5	93	5	54	16†	35	3.73	−1.17	1.03	0	8	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	6.40	.....	2.55	0	8	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	4.71	+0.46	1.76	0	12	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	9.05	.....	2.89	0	12	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	3	77.4	.....	96	8	57	12	32	7.84	+3.62	2.02	0	16	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	73.6	.....	90	16†	50	17	30	5.71	.....	2.17	0	5	18	9	4	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	75.8	− 0.8	94	7†	52	17	35	9.59	+4.16	4.26	0	10	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	6.59	+2.02	2.54	0	10	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	76.4	− 0.5	92	8†	58	17†	34	5.63	+1.61	2.25	0	10	15	10	6	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	9.92	+5.88	3.13	0	10	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	4.35	−0.37	1.54	0	11	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	76.4	− 0.8	98	19	55	17†	35	4.10	−0.58	0.69	0	12	25	2	4	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	4.86	+0.04	2.15	0	9	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	.....	75.0	.....	95	18	54	16	30	5.61	.....	1.87	0	12	.....	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	76.5	− 0.6	102	13	50	12†	46	4.83	+0.64	4.90	0	9	15	11	5	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for July, 1939.

Stations		Day of month																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																	
Beaver Dam	G.			.15		.59										.24					.51				.78	T.		.56					2.77
Calhoun	G.			.02	T.		.54		.09							.05								1.00	.81	T.	.11	.53					8.18
Earlington [2]	G.			.06	.32			.46									.15							T.	.30	.67		.25					2.20
Fords Ferry Dam 60 [3]	O.			T.	.13	T.		.06		.04							.26	.02							.52	.01		.01			T.		1.04
Gilbertsville [2]	T.				.26			.33		.11							.32									.09		.50					1.43
Greenville	G.			.45		.12										.09					.20			1.20	.10			.30					2.36
Hartford	G.			.34	.08		.28		T.							.07	.04				.17			.94	.81	T.	.25	.07		.01			2.56
Henderson	O.			.74	.08				1.04	.02							.16							.14	T.		.60			.57			8.85
Hopkinsville [2]	C.			.72	.38												.14				.26	1.87	.02			.92		1.06					5.37
Lovelaceville	M.						1.45									.20	.60										1.12						8.37
Mayfield	M.			T.				.68	.14								.96				2.00				.28			.10					4.22
Murray	T.																																
Owensboro [2]	O.			T.	.09	.20		.45		.18						.07									.03	1.16	T.	1.88		.11			4.17
Owensboro, Dam 46 [3]	O.				.13	.19		.27		.21						.05					.12				.06	.76	T.	2.50		.10			4.19
Paducah [2]	O.				.02	T.				.44							.82	.12			T.				T.				.24				1.64
Paducah (near) [2]	O.				T.				.64							.08	.82							.42			.06						2.02
Princeton	G.			.10	T.		T.		T.							.33	.04							.10	.10		.10	.08					0.85
Ramsey, Lock No. 2 [2]	G.			.02		.03		.85		.06							.07				.06				1.02	1.01	.02	.41					3.55
Russellville [2]	G.			.14	.28												.01				.68					2.31		.73					3.55
Uniontown, Dam 49 [2]	O.				.86	.03				1.17							.22								.41		T.	2.85	T.	.62	T.		6.16
Central Division																																	
Addison, Dam 45 [2]	O.				.30	.10		.95		.05					T.						.29					.07		1.80		.84	.01		3.89
Anchorage	O.			T.	T.	T.			.39	.03										.19		T.	T.	1.01		.15		.77	.71				3.25
Bowling Green [2]	G.			.05	.17			.30													1.10			T.	.30	1.15	.50		.05				3.62
Brownsville, Lock No. 6 [2]				.12	.92			.92				.11			.81						.16				.12		.40			.07			3.63
Burnside [2]	C.	.23			.67	T.		.27		.73											.65				.10		.40			.26			3.31
Carrollton Lock No. 1 [2]	K.					.36				1.34										.34	.66				.40	.18			1.05				4.33
Cold Spring, Dam 36 [2]	O.				T.	T.				.76						.12				.82	.68	2.10	.05		T.	.12	T.	.02		.16	.88	.02	5.43
Danville [2]	K.			.36				.45													.75				.03	.70		.01		.61	.15		2.94
Dix Dam, Burgin	K.	.15	.47		1.47				T.											1.30	.68			.42	.20		.07		.90		.13		6.11
Eadsville [2]		.16		.05	.33					.11											.57				.10	.48		.74			.22		2.71
Eubank	C.																																
Frankfort, Lock No. 4 [2]	K.				.09	.02		1.26		1.26											.93	T.			.07	1.19	.44	.08		T.	.63		5.97
Gest, Lock No. 3 [2]	K.					.46				.49											2.90	.03			.58	.64	.55	.12		.43	1.00	.07	7.07
Glasgow	G.				.45		.46			1.07		.18			.14						1.77				.55	.02		.41		1.89	.30		7.24
Grant, Dam 33 [2]	O.	T.			T.	T.	T.			.84	T.									.70	.40	1.35			T.	.05	.09	T.		.13	.18		3.74
Greensburg [2]	G.				.42	T.		.11		.17												.80			.40	.17		.88		.28	.71		3.44
High Bridge, Lock No. 7 [2]	K.				.18	.27	T.	.21		T												1.60			.74	.30		.20		.28	.20	.03	4.01
Irvington	O.																																
LaGrange	O.				.04					1.32											T.				.27		T.	.38		.27		.01	2.26	4.55
Lancaster [2]	K.			.75	.02	.30	.38		.36												.63					.43		4.90		.43	.30	.15		8.22
Leitchfield [2]	G.			.67	.52	.05		1.78		.18					.07		T.					.25				.62		1.19		.43	.22		5.98
Lexington [4]	K.			.02	.08	.62	.45		.32	.01											.65	.30	.01			.22		.15	.10	.05	.30	.01		3.80
Little Hickman, Lock No. 8 [2] [4]	K.				.45	.45	.20	.80		.78												1.00				.35	1.03				.30	T.		5.36
Lockport, Lock No. 2 [2]	K.					.17				.72												1.56				.18	1.29	.23	.11		2.58	.11		6.95
LOUISVILLE [1] [4]	O.			T.	.03		T.		.51												.27				.10	2.61	.01	.85		.99	.54		5.91
Do. Bowman Field	O.			.07	.01		T.		.67												.25	T.			.55	1.80	T.	.43		.14	.49			4.41
Mammoth Cave [2]	G.			.04	.98			.55		T.						.45						.52				.13		1.32		1.90	.07		5.56
Monticello [2]	G.																					1.51	.14			.20	.78		1.08			.23	T.	3.94
Munfordville [2]	G.				.60			1.79		.39					T.							.43				.12	.08		.56		1.29	1.06		6.32
St. John [2]	S.				.39	.10		.08								.01						.46					.06	.03	.76		1.10	.80		3.79
Salvisa, Lock No 6 [2] [4]	K.				.15	.11		.47		.21	.30											1.51					.46		.49		.08	.40		4.18
Shelbyville [2]	S.				.02	T.		.21		.14												.22			.02	.73		.10	.33	T.	.25	1.26		3.28
Shepherdsville	S.			.16						.31					T.							.82				.09		T.	.25	T.	.45			2.08
Smith's Grove	G.				.64			.60		.31					.91							.94				.04	.17		.50		.42			4.46
Stearns	C.	.30			.50	T.		.62		.35												.11	.25			.70	.25	.12	.24	.01		.17		8.62
Taylorsville	O.									.40											2.60	.30				.80			.40	.10	1.20			5.80
Tyrone, Lock No. 5 [2] [4]	K.			T	.22					1.50												.72					1.18		.70		.36	.38	.08	5.14
Williamstown [2]	L.					.41	.02			.45											.25	.06	.18	.05			.15	.08	.45		2.25	1.10		5.45
Woodbury, Lock No. 4 [2]	G.			.18	.22			.46														.01			.14	.86	T	1.70		.03			3.60
Eastern Division																																	
Annville [2]	C.	.01			.95	.55	2.10	.25		1.42		.02										.68	T.			.38	.88		.04	.02	.01	.04		6.75
Ashland [2]	C.	.06			.22	.60				.04												.47	1.76	.89	.11		.35	.05			.48		.01	.05	4.59
Berea	K.																																
College Hill, Lock No. 11 [2]	K.				.26	.86	1.60	.08	T.													1.25	.20			.35		.65	.11		.99	.05		6.40
Cumberland	C.			.25	.95	.14		.42	.25		.15			.15							.76					.66	.18			1.00				4.95
Cynthiana [2]	L.					.81	.27	.30		.82											.07	.70				.21	.06		1.33		T.	.32		4.59
Falmouth [2]	L.					.50	.08	.03		2.85					T.					.18	.12	.17	.57			.01	.11	.08	1.38		.17	.84		6.59
Farmers [2]					.18	2.55	.08			1.33										.86	.71	.08				1.67	1.42	.11			.04	.02	.20	8 70
Flemingsburg [2]	L.					1.21		.11	1.86												.84	1.14	.12			.10	.09	.15			.09	.24		6.62
Ford, Lock No. 10 [2] [4]	K.	.15			.33	.11	1.36	.02		.09												.79	.05			.61	.29		.02		1.05	.20	T.	5.07
Grayson [2]	O.				2.80					.12											.85	.70			.10			.80			.24	.30	5.31
Greenup, Dam 30 [2]	O.				.07	.22				.20	.25									T.	1.01	.57	.38			.02	.02		.10		.04	.60	.21	3.69
Hazard [2]	K.	.25			.15	1.25	.15			.58		.25				.35					.80					.38				.15	.50		4.66
Heidelberg, Lock No. 14 [2]	K.	T.			.15	1.11	.04	.11		.50		.02										.92				.51	1.69		.31		.02	.76		6.68
Jackson [2]	K.				.14	3.75	.25	.16		.87												1.09				.58	.15		.49			1.48		9.06
Jenkins [2]	B	.39			.05	.25				.18		.08				.66						.82					2.50	.10	.07			.90	.20	6 20
Louisa [2]	B				.20	1.02				.81		.88									.62	.30				.10			.20		.09	.11	.14	8.97
Maysville, Dam 33 [2]	O	.05				2.00	T.	.15		.52										.20	.63	1.09	.21			.13	.10	.07	.01		.03	.68		5.87
Middlesboro	C				.83		1.03									.03						.10	.08			.82	.42				.42			3.73
Mount Sterling	L																																
Oneida [4]	K	.23			.38	2.55	.15			.41								.42								1.64			.72					6.40
Oneonta Dam 35 [2]	O				T.	T.				.53	T.					.14				.46	.44	1.76	.06			T.	.18	.34	.03	T.	.04	.67	.06	4.71
Paintsville [2]	B	.23			.41	2.89	.02			.66						.42					1.29	1.37	.84			.23	1.00				.54			9.05
Pikeville	B	.06			.58	2.02				.27	.05					1.21					.14	.58	.34	.72		.17	.05	.34	T.		.67	.69	.08	7.84
Pippapass	K				.17	2.17				1.55											1.32					T.			T.	.50			5.71
Quicksand [2]	K	.60		.55	4.20			.50		.75												1.26				.50	.70		.35			.12		9.59
Ravenna, Lock No. 12 [2]	K				.09	.46	2.54	.12		1.40												.51		.09		.75	.55					.11		6.59
Richmond [2]	K			.35	.40	1.25	.05			.05											1.50			.40	.50		.03		.10					5.63
Valley View, Lock No. 9 [2]	K				.47	.08	3.13	.28		.60												2.04	.15			.75	1.62			.02	T.			9.52
Vanceburg, Dam No. 32 [2]	O.	T.			T.	1.54	T.	.68		.15	.10									.53	.82	.61	.36	T.		.05				.08	.08		4.55
Williamsburg [2]	C	.41					.03	.46		.34		.69		.05								.40				T	.44		.12		.06	.71		4.16
Willow, Lock No. 13 [2]	K	.15				.97	.27			.14												.73				.35	2.15				.04	.06		4.86
Winchester	K				.38	.38	1.01	.01		.22												.77	.04			.63	.09		.03		1.87	.18		5.61

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1] First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2] Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. [3] Precipitation measured with recording gage. [4] Included in the next following measurement
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for July, 1939.

Stations.		1	2	3	4	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	85	85	84	91	95	95	91	97	92	91	84	88	96	91	85	81	98	98	95	88	88	94	86	89	88	94	92	90	82	..	87	*89.8
	Minimum	60	57	66	70	74	71	68	71	68	64	58	56	68	66	62	61	60	76	70	67	64	65	67	67	65	71	68	67	68	..	59	*65.8
Calhoun	Maximum	87	87	85	92	97	95	96	98	93	93	88	91	99	96	86	84	98	98	95	88	93	95	89	89	90	96	92	92	90	88	86	91.5
	Minimum	67	62	64	67	74	66	63	76	64	69	65	60	70	61	55	62	62	70	69	64	65	67	64	66	63	68	65	64	66	64	64	65.4
Earlington	Maximum	84	92	..	91	96	92	96	96	93	92	89	94	96	94	90	80	95	97	93	87	93	94	91	91	91	94	93	90	90	86	90	91.7
	Minimum	61	64	67	73	77	75	70	72	70	63	59	60	76	66	64	64	63	78	74	68	67	68	68	71	69	73	69	69	72	67	60	68.4
Greenville	Maximum	81	88	85	89	95	94	95	98	94	90	85	91	96	92	89	88	95	99	94	85	91	95	90	91	91	96	92	90	88	85	89	90.6
	Minimum	57	55	63	69	74	71	65	68	65	61	59	55	71	71	61	61	59	75	70	65	64	64	65	67	64	69	67	58	68	69	57	64.6
Henderson	Maximum	81	88	85	90	95	94	96	99	93	92	85	88	98	93	78	82	92	98	98	86	88	92	83	87	88	98	95	94	82	88	86	90.1
	Minimum	61	58	67	72	75	75	69	72	67	63	55	60	74	66	62	63	62	77	72	66	68	66	66	70	65	69	68	66	69	61	60	66.6
Hopkinsville	Maximum	88	90	85	90	96	95	97	98	92	92	88	98	97	95	76	83	95	95	97	90	92	92	90	94	91	96	93	87	87	85	90	91.5
	Minimum	67	68	67	70	75	71	69	71	70	65	62	58	68	64	62	64	61	68	70	69	66	67	70	68	66	69	67	66	68	62	58	66.0
Lovelaceville	Maximum	86	87	90	96	97	100	98	88	92	86	90	94	96	90	84	83	93	90	87	91	90	89	90	92	94	96	88	82	86	90	90	90.5
	Minimum	56	68	74	74	68	73	73	67	64	61	61	70	68	64	67	63	75	71	68	63	64	69	68	69	71	68	68	58	68	66	66	66.5
Mayfield	Maximum	86	88	86	91	98	96	99	94	87	91	91	91	97	97	92	83	91	95	92	89	89	92	87	91	90	93	93	87	88	86	89	90.8
	Minimum	58	61	69	72	72	69	74	71	69	65	62	62	71	71	64	65	63	74	71	70	65	66	71	69	68	70	68	66	66	60	59	67.1
Murray	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Owensboro	Maximum	83	86	84	88	92	92	93	94	89	88	86	87	95	92	80	81	90	95	90	86	89	91	88	85	87	91	91	89	88	86	87	88.5
	Minimum	61	61	66	69	73	72	67	70	68	68	61	66	69	67	62	64	61	75	70	66	64	64	67	69	65	70	66	66	67	64	61	66.4
Paducah	Maximum	90	90	90	94	101	96	100	100	92	94	90	95	99	98	82	75	96	98	90	88	94	93	93	94	96	100	96	92	84	88	92	92.9
	Minimum	60	61	72	72	76	73	76	76	68	65	64	64	73	72	68	65	64	73	72	66	76	71	70	70	72	69	68	70	63	60	60	68.8
Paducah (near)	Maximum	89	90	86	91	99	99	102	101	..	..	..	..	..	..	80	80	91	94	90	89	92	92	91	91	93	96	98	89	85	89	91	†91.5
	Minimum	58	60	71	73	75	79	74	73	..	..	..	..	..	..	64	67	64	70	74	71	64	67	67	69	70	71	70	69	67	59	68	†68.2
Princeton	Maximum	82	85	87	92	96	90	97	94	92	93	89	94	97	96	88	81	95	97	90	87	91	92	92	90	94	96	90	91	84	86	91	90.9
	Minimum	61	60	70	73	76	73	72	73	72	65	63	63	72	74	65	66	63	76	73	70	68	68	69	71	70	72	69	68	71	63	61	68.7
Russellville§§	Maximum	74	80	83	84	94	91	94	95	84	83	84	91	96	89	75	78	90	98	90	87	88	89	85	85	85	90	84	86	78	84	84	86.4
	Minimum	57	57	65	69	74	72	67	72	68	64	69	55	68	71	61	61	59	73	71	68	63	66	69	69	65	69	67	67	66	61	59	65.5
Central Division.																																	
Anchorage	Maximum	81	85	82	85	89	89	89	90	87	85	79	85	92	85	79	82	85	92	82	85	88	85	84	88	83	86	86	88	78	80	83	85.1
	Minimum	56	57	62	69	73	73	66	68	65	65	58	56	68	60	58	54	55	68	68	66	62	64	65	68	63	66	66	70	66	66	60	63.8
Bowling Green	Maximum	88	91	84	93	94	91	94	99	89	94	89	94	102	95	95	85	95	101	95	86	90	95	88	92	87	94	88	88	87	89	91	91.6
	Minimum	68	73	67	70	75	75	69	74	73	69	63	60	70	72	65	65	64	75	75	70	68	68	71	72	67	70	70	70	69	66	66	69.2
Danville	Maximum	83	84	84	87	92	89	91	93	90	89	83	85	98	89	83	83	86	96	93	81	86	90	89	87	87	90	88	89	78	82	84	87.2
	Minimum	58	59	61	67	70	70	68	72	64	67	67	57	64	68	54	64	64	52	65	62	66	62	62	69	68	68	66	66	66	63	60	63.3
Dix Dam	Maximum	85	85	89	94	98	93	96	95	89	87	87	87	94	90	86	85	87	96	93	80	85	92	92	90	89	92	90	89	77	83	87	88.9
	Minimum	65	64	68	74	78	70	75	67	67	61	63	65	65	68	57	55	55	66	70	70	66	64	69	70	65	70	70	70	70	67	63	66.2
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Frankfort	Maximum	88	87	89	90	95	90	96	97	90	90	88	87	95	91	84	87	87	98	91	85	85	90	89	86	89	92	92	91	80	88	89	89.4
	Minimum	56	57	62	69	73	73	69	71	69	64	56	56	64	65	55	54	54	67	70	69	63	62	66	68	63	65	67	69	67	65	61	64.2
Glasgow	Maximum	88	87	88	89	93	93	94	94	95	89	89	89	94	94	86	85	98	96	86	88	92	91	89	84	91	92	88	88	81	87	89	89.7
	Minimum	58	60	65	69	75	69	65	71	67	79	..	..	..	..	58	59	58	71	68	65	62	68	67	70	66	70	68	69	67	65	60	†66.1
Greensburg	Maximum	88	85	80	88	95	93	94	97	94	94	87	98	98	88	88	94	90	97	87	88	96	92	95	86	94	90	91	82	85	87	90.8
	Minimum	58	57	60	65	73	67	63	69	65	63	55	51	52	69	55	55	54	66	65	66	61	60	65	67	62	65	65	69	68	61	59	62.0
Irvington	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Leitchfield	Maximum	83	88	83	89	98	93	92	94	88	89	82	87	95	86	88	88	88	94	94	84	88	92	87	92	87	92	90	89	81	81	87	88.2
	Minimum	61	61	64	69	74	69	67	72	68	65	60	56	68	67	60	61	60	72	72	67	64	64	70	68	66	70	68	68	66	65	63	65.9
Lexington	Maximum	83	86	86	88	92	90	94	96	90	88	81	89	93	86	82	85	86	96	90	83	83	91	88	90	91	91	90	91	78	83	87	88.0
	Minimum	57	59	64	67	70	70	68	66	65	57	56	66	66	67	57	66	55	68	68	68	64	64	69	63	64	68	67	69	67	64	60	63.9
Louisville	Maximum	83	86	82	86	88	88	92	94	89	87	81	85	94	87	81	83	87	95	91	85	86	90	89	87	88	91	88	88	79	82	85	87.2
	Minimum	64	64	70	70	76	74	72	71	72	67	62	68	73	71	65	65	65	78	70	70	70	67	71	67	66	67	69	68	68	68	66	68.6
Do. Bowman Field	Maximum	82	86	83	87	93	88	95	95	89	87	82	87	94	88	82	84	90	95	90	86	88	90	89	88	89	91	90	87	80	82	86	88.2
	Minimum	60	60	66	70	75	72	68	69	68	66	60	59	70	69	58	58	60	74	70	70	66	63	68	67	66	70	68	69	68	66	64	66.3
Mammoth Cave	Maximum	83	86	84	88	94	90	90	95	87	89	83	82	94	90	82	84	90	96	93	85	87	91	85	89	86	92	90	89	81	82	86	88.0
	Minimum	56	55	60	67	73	66	61	68	63	61	55	56	67	65	55	56	55	70	64	66	59	62	64	66	62	68	65	66	64	62	56	62.2
St. John	Maximum	85	85	85	87	93	96	91	95	91	91	84	85	95	87	84	84	87	95	94	84	86	90	84	89	89	93	90	91	79	86	86	88.3
	Minimum	57	59	75	78	77	75	76	77	74	68	62	61	70	67	61	65	64	75	72	70	66	66	69	70	75	79	76	68	74	75	73	70.0
Shelbyville	Maximum	83	83	82	86	95	88	92	96	89	88	82	89	94	90	88	85	90	98	92	84	85	90	89	88	88	90	90	87	79	85	85	87.8
	Minimum	56	57	62	67	73	72	66	69	64	64	55	54	65	65	52	52	64	67	68	67	62	60	66	65	62	65	64	67	65	68	60	62.8
Smith's Grove	Maximum	84	86	83	88	94	91	91	95	87	90	84	88	95	88	82	83	89	96	94	85	87	91	86	89	87	92	91	87	82	83	87	88.2
	Minimum	59	60	63	69	70	73	65	70	69	66	60	67	68	71	64	64	64	75	74	67	62	64	66	72	67	71	69	69	68	64	63	66.5
Stearns	Maximum	85	83	84	85	89	84	89	94	85	87	81	85	91	87	80	80	85	96	93	80	82	86	88	89	91	85	85	87	84	83	85	85.7
	Minimum	57	58	62	66	71	72	66	67	67	68	61	54	63	71	59	64	65	65	69	65	62	62	72	67	65	66	64	67	66	64	59	64.3
Taylorsville	Maximum	84	85	82	87	93	89	90	93	89	88	81	90	93	86	85	88	89	95	91	85	88	88	88	88	89	90	88	88	80	81	80	87.4
	Minimum	56	57	63	69	75	71	68	69	67	64	55	63	71	68	59	62	60	75	71	70	68	69	67	64	65	66	72	68	71	65	57	65.5
Williamstown	Maximum	86	87	86	89	94	90	92	94	91	90	87	80	88	92	91	82	85	90	91	90	88	78	87	88	83	90	90	87	92	77	80	87.8
	Minimum	58	62	63	68	72	74	70	73	61	65	56	59	67	66	55	52	60	66	70	64	64	64	69	69	62	66	66	69	66	64	60	64.5
Eastern Division.																																	
Annville	Maximum	84	82	85	85	84	91	85	91	92	87	87	81	85	90	86	80	84	85	94	93	82	85	89	90	90	87	88	88	90	88	88	86.8
	Minimum	54	55	60	65	68	69	68	65	65	57	61	60	68	64	50	50	57	64	65	61	60	65	66	62	64	65	65	67	65	59	61	61.7
Ashland	Maximum	84	84	90	87	92	92	92	95	89	89	81	85	87	87	80	82	83	87	83	78	78	85	89	84	85	85	86	85	79	80	86	85.5
	Minimum	58	59	62	70	70	71	71	73	70	77	56	66	65	70	58	50	53	66	67	67	66	60	66	68	63	62	67	68	70	64	61	65.3
Berea	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Cumberland	Maximum	81	85	88	82	89	89	96	90	87	86	81	87	90	86	82	81	86	92	92	81	85	88	90	89	87	89	87	88	79	83	85	86.3
	Minimum	55	60	67	67	70	67	66	67	72	62	60	53	63	67	51	50	54	62	64	64	60	60	65	62	66	66	65	67	62	62	60	61.8
Farmers	Maximum	83	82	83	83	92	83	96	89	91	85	84	86	90	88	87	84	91	91	91	77	88	91	86	89	89	90	90	73	76	81	84	86.4
	Minimum	55	56	61	68	68	70	69	71	67	68	56	54	62	68	55	51	50	62	69	67	64	62	66	65	68	68	67	68	68	64	61	64.1
Heidelberg	Maximum	84	84	87	85	90	85	93	94	91	90	84	87	91	88	81	83	87	95	98	81	85	90	92	88	88	90	90	86	84	85	90	88.0
	Minimum	57	60	63	67	70	70	69	70	69	67	59	54	63	70	66	63	62	70	66	66	64	67	70	66	66	67	70	66	68	67	69	64.3
Maysville	Maximum	84	84	89	87	91	93	96	96	92	91	90	82	92	86	84	84	84	91	82	83	79	88	91	84	90	91	90	89	81	83	87	87.5
	Minimum	58	60	61	70	70	73	70	73	68	68	55	67	66	65	54	52	57	65	69	68	63	68	66	68	64	67	69	67	67	64	61	64.4
Middlesboro	Maximum	83	88	86	83	93	88	91	90	88	91	86	89	90	88	85	83	89	86	90	78	87	88	86	86	83	88	80	78	71	83	79	85.4
	Minimum	59	58	62	68	78	68	70	69	71	69	62	66	67	71	56	54	64	57	67	66	64	62	64	66	65	67	65	68	69	65	63	64.2
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	84	85	88	87	91	93	92	96	91	91	82	89	91	88	84	81	84	95	96	84	81	88	94	90	91	93	91	93	84	87	88	88.6
	Minimum	63	64	66	69	68	71	68	70	71	71	62	57	62	70	62	58	68	60	67	66	69	61	67	68	66	69	70	71	70	67	67	66.1
Pippapass	Maximum	87	85	82	81	89	83	88	86	88	88	87	82	82	84	88	80	82	87	84	83	85	90	87	87	85	84	88	86	86	85	85	85.5
	Minimum	67	66	56	64	69	66	68	66	65	67	60	52	59	60	64	67	57	59	59	52	54	72	58	63	64	64	64	62	67	65	63	61.7
Quicksand	Maximum	83	88	90	85	92	87	94	94	91	90	83	88	92	89	83	85	86	94	91	81	86	90	91	91	89	90	90	92	86	84	88	88.4
	Minimum	67	63	62	66	67	70	70	69	67	63	57	53	60	65	68	58	52	69	64	65	64	63	65	66	63	65	66	68	68	66	65	63.1
Richmond	Maximum	85	85	82	84	90	85	90	92	85	87	80	86	90	87	85	80	82	92	92	80	80	87	88	88	85	89	90	90	78	80	85	85.8
	Minimum	69	59	63	68	68	68	69	64	70	65	64	58	60	60	62	56	55	61	62	55	60	62	66	70	65	70	68	70	70	66	65	66.9
Williamsburg	Maximum	87	88	89	94	89	92	91	95	94	83	83	94	87	84	82	83	81	90	92	90	88	86	90	91	89	92	93	94	90	89	89	89.7
	Minimum	69	59	63	68	68	69	64	70	65	64	58	60	60	62	56	55	61	62	55	60	62	66	63	60	69	65	65	63	62	61	61	63.0
Winchester	Maximum	81	83	84	85	90	86	91	93	86	87	80	83	90	85	80	82	85	95	90	80	82	87	86	87	86	87	89	76	81	86	85.5
	Minimum	59	60	64	66	71	70	68	73	64	67	57	56	67	68	55	54	55	67	69	67	63	63	69	67	63	68	66	68	67	65	62	64.6

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

*,†,‡ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 8-26-39 1109

51.03
AE
-49
No.8

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., AUGUST, 1939 No. 8

GENERAL SUMMARY.

In most central and eastern districts the weather was favorable for the development of the staple crops. In the extreme west and toward the southern border, where precipitation was very irregular and often deficient, unevenness of growth continued through the month, especially on the uplands and thinner soils. Moderate to heavy rains in the first week, following heavy rains late in the preceding month caused damage to tobacco in much of the Burley district and also injured the densely growing soybeans. Heavy rain in the northern part of the burley area in the following week continued the damaging conditions, which affected mainly the bottom leaves. Tobacco scalded and died in places that lacked speedy drainage. Showery weather in the third week interfered with making soybean and alfalfa hay. High humidity, with temperatures above normal at times, delayed the preliminary curing of recently housed tobacco. The lower Green River Valley received so much rain at this time as to extensively injure ripening tomatoes. The fair weather of the last decade brought more favorable conditions for ripening and curing tobacco, and stopped the damage to the tomato crop. While the rainfall in the southwestern counties sufficed for cotton, it was much too light for tobacco, corn, and pastures. With the exception of some upland areas corn made excellent progress in the central and eastern counties. Irregularity, due to lack of rain, increased from the central counties westward to the Purchase. Tobacco, likewise, showed the same irregularity from the east to the west. Cutting began in the burley district about the end of the first decade and was well advanced by the end of the month. Because of delayed growth due to dry weather it had merely begun in western sections by the close. Pastures varied from unusual luxuriance in the east through irregularity in central sections to poor condition in the southwest. In most of the State grass was better than usual at this time of year. Too much rain in eastern districts affected the stand of late potatoes. Except in the driest parts of the southwest alfalfa and soybeans grew well and made heavy yields of hay. Weather favorable for curing occurred in brief periods in the first and second weeks and during most of the last decade. The most unfavorable weather prevailed in the northeastern counties, where hay was considerably damaged.

TEMPERATURE.

Temperatures near or slightly below normal occurred in the first and third decades. Rather high temperatures prevailed from the 12th to 17th. Averages for the various reporting stations were not far from normal. As a rule they were somewhat below the seasonal level in the wet areas and slightly above in the dry districts. Maxima were not especially high, but minima were rather low on several days that centered about the 5th, 9th, and 21st. Extremes for the State were 99° at Henderson on the 13th and 43° at Middlesboro on the 23d.

PRECIPITATION.

Precipitation averaged about three-fourths of the normal amount, but the distribution was so irregular that many localities suffered for moisture although nearby districts had too much rain. Some areas, each made up of several counties, in the northern and eastern parts of the State, received from 4 to 6 inches of rain. As a rule the precipitation decreased irregularly toward the southern boundary, where it fell off to less than 2.0 inches in large districts. Dry areas in which there was less than 2.0 inches of rain also occurred in the central part of the State, the Big Sandy Valley, and the lower valley of the Licking. Amounts at the various stations ranged between 0.72 inch at Oneonta, Campbell County, and 6.98 inches at La Grange. Showers were fairly general in the periods 2d-4th, and 8-10th. They occurred daily but were very local and irregular from the 13th to 21st. There were some heavy local rains on the 14th, 16th, and 19th. Scattered showers were reported on the 23d-24th, mainly from central and western districts. Days with thunderstorms were: 2, 3, 5, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 22, 23.

MISCELLANEOUS.

Rivers.—Pool stages prevailed in all streams during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 6.30 a. m.	12.30 p. m.	6.30 p. m.	Percentage of sunshine.
Cairo .....Ill.	29.96	30.15	25	29.71	18	5.9	32	n.	22	86	57	63	80
Cincinnati .....Ohio	29.99	30.24	26	29.70	18	5.8	23	nw.	8	87	46	64	72
Evansville..... Ind.	29.96	30.17	26	29.69	18	6.4	33	n.	12	81	51	55	77
Louisville .....Ky.	29.98	30.17	26	29.65	18	6.5	27	sw.	8	92	54	63	76

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1893.....	70.6	100	43	1.23	..	..	..	..	..
1890.....	73.2	101	44	6.16	..	..	..	..	..
1891.....	72.9	105	43	5.82	..	..	..	..	..
1892.....	75.4	96	45	3.13	..	..	..	..	..
1893.....	74.8	99	48	1.72	..	..	..	..	..
1894.....	77.1	105	41	3.02	..	5	..	..	..
1895.....	76.6	102	49	2.15	0	6	16	10	5
1896.....	77.1	105	41	2.83	0	9	19	8	4
1897.....	75.2	101	49	2.33	0	7	18	10	3
1898.....	76.7	100	55	3.83	0	6	18	10	3
1899.....	78.1	102	51	3.09	0	6	16	11	4
1900.....	80.4	104	52	2.74	0	12	19	10	2
1901.....	75.5	101	50	5.12	0	7	12	9	10
1902.....	75.6	103	45	2.48	0	8	16	10	5
1903.....	75.5	100	49	3.27	0	8	15	11	5
1904.....	75.2	100	45	2.64	0	9	15	8	8
1905.....	75.7	99	42	3.82	0	10	16	8	7
1906.....	77.4	99	45	4.37	0	10	13	9	9
1907.....	74.8	99	48	4.27	0	6	15	7	9
1908.....	76.3	104	49	2.79	0	7	16	8	7
1909.....	76.9	104	45	2.60	0	6	19	8	4
1910.....	74.0	100	46	2.72	0	10	18	7	6
1911.....	76.2	106	45	4.03	0	13	13	7	11
1912.....	73.7	98	43	4.71	0	7	14	8	9
1913.....	78.0	108	44	2.81	0	12	16	9	6
1914.....	76.0	100	49	5.94	0	14	13	8	10
1915.....	71.3	100	42	6.29	0	9	9	10	12
1916.....	77.0	101	47	4.25	0	8	14	10	7
1917.....	73.9	100	42	3.49	0	7	16	8	7
1918.....	80.2	111	50	3.18	0	8	17	9	5
1919.....	78.0	104	47	3.49	0	13	17	8	6
1920.....	73.4	98	37	5.80	0	10	10	10	11
1921.....	76.0	101	48	5.28	0	6	16	9	6
1922.....	75.2	101	44	2.43	0	12	16	9	6
1923.....	75.4	99	43	6.03	0	12	13	10	8
1924.....	76.5	103	43	3.00	0	7	21	6	4
1925.....	76.5	106	44	1.47	0	5	21	7	3
1926.....	77.3	101	51	7.51	0	14	12	10	9
1927.....	74.1	97	43	2.88	0	8	16	8	7
1928.....	77.0	101	54	4.33	0	11	14	10	7
1929.....	74.0	100	37	2.06	0	6	19	7	5
1930.....	76.5	113	42	2.25	0	7	16	9	6
1931.....	74.9	102	45	5.36	0	12	18	9	9
1932.....	76.5	103	43	4.25	0	7	17	9	5
1933.....	74.7	99	51	3.30	0	10	16	6	15
1934.....	76.6	104	46	4.76	0	10	15	11	5
1935.....	77.0	103	42	4.22	0	9	16	9	6
1936.....	81.1	108	43	2.22	0	6	16	11	4
1937.....	78.0	100	53	3.63	0	9	15	10	6
1938.....	78.0	101	52	4.45	0	10	16	10	5
1939.....	75.3	99	43	2.88	0	8	16	10	5
Period.....	75.8	113	37	3.70	0	9	16	9	6

†51-year averages.

Climatological Data for August, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																				
Beaver Dam	Ohio	441	27	76.0	− 0.4	95	12	50	22	32	2.49	−0.82	0.67	0	9	14	12	5	s.	Eldred G. Yonng.
Calhoun	McLean	437	35	.....	.....	96[a]	14	51[k]	22	32[k]	3.12	−0.72	1.06	0	10	16	4	11	.....	R. C. Bennett.
Earlington	Hopkins	420	45	77.2	0.0	96	15†	62	22	35	2.89	−0.36	1.56	0	8	24	3	4	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	2.92	+0.53	0.72	0	10	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	2.64	.....	0 89	0	8	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	75.6	− 0.5	96	12	50	22	37	2.58	−0.88	2.05	0	5	21	10	0	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	2.80	.....	1.15	0	10	19	7	5	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	75.8	.....	99	13	50	22	35	2.87	−0.35	0.72	0	8	18	12	1	n.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	76.8	− 1.1	94	11†	50	22	40	2.21	−1.33	1.60	0	5	23	8	0	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	76.2	.....	94	1†	49	22	41	2.63	−0.95	0.85	0	5	22	7	2	s.	Blaine Malone.
Mayfield	Graves	364	30	78.0	+ 0.5	95[a]	11†	61[j]	27	31[j]	1.92	−1.79	0.84	0	5	21	8	2	ne.	Mrs. Joe Payne.
Murray	Calloway	412	13	78.0	+ 0.4	95	13	56	22	34	1.95	−1.44	1.18	0	4	6	14	11	s.	Pat W. Wear.
Owensboro	Daviess	420	42	74.4	− 1.5	92	12	52	22	28	5.67	+2.28	2.55	0	10	24	1	6	ne.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	6.11	+3.01	2.75	0	10	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	78.9	− 1.7	98	13	54	22	32	3.01	−0.73	0.85	0	6	18	9	4	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	77.8	− 0.5	96	13†	50	22	41	2.10	−2.22	0.80	0	4	25	4	2	.....	Joe Lagore.
Princeton	Caldwell	529	32	78.1	+ 0.8	95	15	53	22	37	2.13	−1.47	0.50	0	11	13	15	3	s.	S. J. Lowry.
Ramsey, Lock 2‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	4.17	−0.05	1.38	0	12	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	72.7	− 4.3	90	11	52	22	28	1.74	−1.37	0.65	0	6	20	5	6	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	3.46	+0.24	1.00	0	11	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	852	11	.....	.....	.....	.....	.....	.....	.....	1.78	−1.36	0.42	0	11	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	73.8	− 0.7	91	8†	53	22	30	3.43	−0.22	0.96	0	9	17	11	3	se.	C. E. Barret.
Bowling Green	Warren	500	43	78.4	+ 0.2	95	12†	55	22	34	2.97	−0.66	1.82	0	6	16	11	4	.....	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	1.72	−2.53	0.50	0	6	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	2.96	−1.26	1 15	0	9	.....	.....	.....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	4.44	+0.62	2.46	0	4	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	1.74	−1.90	0.50	0	6	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	935	15	72.4	.....	91	12	50	22	38	3.78	+0.09	1.28	0	11	17	10	4	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	76.0	− 0.6	92	2†	54	22	32	3.02	−0.54	0.94	0	9	15	14	2	se.	Kentucky Utilities Co.
Eadsville	Wayne	672	.....	.....	.....	.....	.....	.....	.....	.....	2.63	.....	0.93	0	8	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	48	22	.....	3.06	−1.22	1.34	0	5	12	13	6	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	75.1	− 0.1	93	11	53	22†	37	1.35	−2.35	0.30	0	8	15	14	2	w	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	6.58	+3.02	2.95	0	8	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	76.2	.....	93	12	51	22	35	2.25	−2.21	0.72	0	7	17	14	0	w.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	2.09	−1.20	1 05	0	4	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	75.3	+ 0.1	98	12	47	22	42	2.62	−1.56	1.54	0	7	5	1	25	n.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	2.32	−1.46	0.91	0	8	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Piggot.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	6.98	.....	2.39	0	9	20	7	4	sw.	J. C. Ogg.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	4.98	+0.94	2.45	0	7	.....	.....	.....	.....	Kentucky Utilities Co.
Leitchfield	Grayson	635	43	76.2	+ 0.6	94	14	52	23	34	2.53	−1.19	1.10	0	7	12	18	1	sw.	H. H. Willis.
Lexington	Fayette	989	55	75.0	+ 0.5	95	12	52	22	33	1.80	−1.65	1.06	0	6	22	4	5	.....	U. S. Weather Bureau.
Little Hickman, Lock 8¶	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	5.94	+1.90	1.70	0	10	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	7	.....	.....	.....	.....	.....	.....	.....	4.51	+0.73	2.27	0	7	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	76.4	− 0.7	91	13	60	22	24	2.98	−0.44	0.88	0	12	16	13	2	ne.	U. S. Weather Bureau
Do. Bowman Field	Jefferson	558	1	75.6	.....	93	15	54	22	30	2.84	.....	0.93	0	12	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	73.9	.....	91	12†	47	22	38	2.50	.....	1.24	0	7	19	8	4	sw	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	2.84	.....	0.85	0	8	15	9	7	.....	E. O. Cooper
Munfordville	Hart	660	10	.....	.....	.....	.....	.....	.....	.....	2.89	+0.14	2.23	0	4	.....	.....	.....	.....	Chester Williams.
St. John	Hardin	777	43	75.6	+ 0.7	92	11†	53	22	32	1.27	−2.66	0.64	0	7	10	14	7	.....	Sisters of Loretto.
Salvisa, Lock 6¶	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	4.11	+0.55	1 56	0	8	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	78.6	− 1.6	93	12	51	22	33	2.36	−1.33	0.91	0	6	14	0	17	n	Wills S. Ratta.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	3.58	.....	1.07	0	9	15	16	0	.....	C. W. Cuernsey.
Smith's Grove	Warren	607	1	76.2	.....	92	11†	52	22	34	1.23	.....	0 97	0	4	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	73.6	.....	89	11†	51	22	33	2.68	.....	0.67	0	12	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	74.7	+ 0.5	90	11†	52	22	30	2.55	−0.95	1.30	0	5	24	7	0	w.	Thad. Cheatham, Sr.
Tyrone, Lock 5¶	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	2.09	−1.87	0.86	0	11	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	74.9	+ 0.6	94	12	56	22	29	3.76	+0.03	2.28	0	9	20	5	6	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	2.36	−1.47	0.90	0	7	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	[a]72.4	.....	93[a]	11†	46[a]	22	36[a]	1 99	.....	0.80	0	13	11	15	5	nw.	W. A. Worthington.
Ashland	Boyd	584	22	76.2	+ 1.4	97	12	54	27	37	3.44	−0.38	2.30	0	8	12	14	5	sw.	Lockmaster.
Berea	Madison	1070	36	[b]75.2	+ 0.5	95[b]	12	56[b]	24	35[b]	1.50	−2.71	0.40	0	5	.....	.....	.....	.....	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	1.70	−2.40	0.45	0	8	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1410	2	73.4	.....	94	11	49	22	38	2.39	.....	0.80	0	10	16	7	8	e.	Olon Cook.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	3.66	−0.24	1.24	0	7	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	4.32	+0.34	1.89	0	10	.....	.....	.....	.....	Jessie Oldham.
Farmers	Rowan	668	32	74.2	+ 0 9	96	11	52	22†	33	3.02	−1.42	0.72	0	11	9	15	7	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	1.54	−3.32	0.67	0	5	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10¶	Clark	593	23	.....	.....	.....	.....	.....	.....	.....	2.87	−1.47	0.96	0	7	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	3.53	−0.04	1.46	0	7	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	1.70	−1.79	0.92	0	7	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	3.54	−0.47	1.05	0	8	.....	.....	.....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	4	74.8	.....	95	12	51	22	36	3.17	−0.75	1.70	0	7	6	13	12	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	4.45	.....	1.16	0	9	.....	.....	.....	.....	Jas. T Goff.
Jenkins	Letcher	1566	19	.....	.....	.....	.....	.....	.....	.....	3 58	−0.31	2.05	0	8	.....	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	1.31	−2.85	0.32	0	6	.....	.....	.....	.....	Zeb Heston.
Maysville, Dam 33	Mason	524	41	75.5	+ 0.3	97	11	54	22†	36	4 45	+0.55	1.24	0	8	9	20	2	s.	Lockmaster.
Middlesboro	Bell	1128	40	[b]71.9	− 2 3	93[b]	11	43[b]	23	44[b]	1.22	−3.38	0.33	0	8	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	75.0	+ 1.0	93	12†	55	23	28	5.50	+1.33	2.10	0	6	18	13	0	sw.	W. R McKee.
Oneida	Clay	870	2	.....	.....	.....	.....	.....	.....	.....	2.06	.....	0.78	0	3	.....	.....	.....	.....	Garret Combs.
Oneonta, Dam 35¶	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	0.72	−3.72	0.23	0	7	.....	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	2.43	.....	0.52	0	10	.....	.....	.....	.....	A. L. Donta.
Pikeville	Pike	636	3	75.6	.....	94	8	56	23	32	2.27	−2.05	1.02	0	8	.....	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	72.2	.....	91	11†	50	23	30	2.47	.....	0.61	0	9	17	9	5	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	74.8	+ 0.2	95	11	53	22†	37	4.14	−0.37	0.71	0	8	.....	.....	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	3.12	−1.52	0 93	0	9	.....	.....	.....	.....	Lockmaster.
Richmond	Madison	926	42	76.4	+ 0.9	90	2†	58	22	26	3.33	−0 63	1.50	0	8	15	8	8	.....	U. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	3.04	−0.56	1 85	0	7	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	2.57	−0.91	0.88	0	8	.....	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	75.2	− 0.9	95	11	52	22	36	1.32	−3.26	0.34	0	10	17	3	11	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	2.42	−1.34	1.04	0	8	.....	.....	.....	.....	Lockmaster.
Winchester	Clark	964	.....	73.9	.....	90	11†	56	22	28	2.53	..	1.19	0	9	.....	.....	.....	.....	Airway Station.
State averages and extremes	.....	.....	.....	75.3	− 0.5	99	13	48	23	44	2.88	−0.82	2.75	0	8	16	10	5	s.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Ramsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, [a], [b], etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for August, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G		.20	.02				.07		T			.39				.18	.48	.44	.67				.04								2.49
Calhoun O			.18				.38		.28		.02	.01				.78	.04	1.06	.16				.21							T	3.12
Earlington [3] G			.28	T.					.43							.26			1.56	.12			.06	.16						.02	2.89
Fords Ferry Dam 60 [3] O			.56	.06			.01		.19	T.			.22			.63	T.	.33	.72				.18	.02							2.92
Gilbertsville [3] T			.20	.14	.89				.44						.18	.28							.50	.04							2.64
Greenville G		.13	.03				T.									T.		2.05	.25				.10								2.58
Hartford O		.34	.01				.12					1.15		.01		.07		.08	.10	.88			.04								2.80
Henderson O		.24	.36				.15		.25			T.				.52	T.	.72	.23				.40								2.87
Hopkinsville [3] C			1.60	.03					.06							T.	T.		.16				.36							T.	2.21
Lovelaceville M			.42			.40		.85								.26						.70									2.63
Mayfield M			.23				.16		T.					.61		.08		T.					.84								1.92
Murray T	.01		.01		T.				T.										.76	T.			.18								1.95
Owensboro [3] O			.73	T.			.39	.21	.05	T.			.90	.20		2.55	T.	.55	.06				.03	T.							5.67
Owensboro, Dam 46 [3] O			.97	T.				.66	.06				.93	.23		2.75		.43	.04				.03	.01							6.11
Paducah [3] O			.33		.08				.77	T.			.01	T.	T.	T.	.37						.85	T.							3.01
Paducah (near) [3] O		.25			.38			.67														.80									2.10
Princeton K		.08	.50		.01		T.	.28					T.	.05	.03	.38	.03	.09	.25				.43								2.13
Ramsey, Lock No. 2 [3] G			1.08	.28				.11	.23	.02			.04	.02		.07		1.38	.34				.03	.02						T.	4.17
Russellville [2] G																.62	.09	.17	.65	.10											.11	1.74
Uniontown, Dam 49 [2] O			.31	.36			.03	.02	.07				.30	.20					1.00	.05			.14	.08								3.46
Central Division																																
Addison, Dam 45 [2] O			.18	.01			T.	.27	.12	.03			.08		.22		.30	.10		.42				.05							1.73
Anchorage O		T.	.17				.20		.18			.68	.87	T.	.96	.11		.66	.10				T.									3.43
Bowling Green [3] G			1.82					.10									.03		.78											.20	.04	2.57
Bowling Green [3] G			1.41					T.								.02			.78	T.				T.							.89	5.10
Brownsville, Lock No. 6 [3] G			.50					.17	.07									.47	.40					.02								1.72
Burnside [2] C			.46	.25				1.15		.08					T.	.28	.63	.05	.03		.03									T.		2.96
Carrollton Lock No. 1 [2] K								.24						2.46				1.30	.44													4.44
Cold Spring, Dam 36 [2] O			.50	.32				T.	.06				.28	T.					.33	.25				T.								1.74
Danville [2] K			1.28	.02				.39		.20			.79			.01	.41	.07	.29		.12			.20								3.78
Dix Dam, Burgin K		.91	.22				.64		.13			.10			.18			.65	.05	.08												3.62
Eadsville [3]			.93		.08			.19		.10						.43	.20	.05						.05								2.03
Eubank C				1.34						.20							.29		1.20					.12								3.06
Frankfort, Lock No. 4 [2] K			.28	.15				.15	T.	.04			.18		.25		T.		.05	.30				T.								1.05
Gest, Lock No. 3 [2] K			.51	T.				.22	.24				.12	2.95	1.08				1.45	.06												6.88
Glasgow G			.72				.35		.02						.51	T.	.42	.21	.02													2.25
Grant, Dam 33 [3] O			1.05	T.				T.	.16				.03	T.					.85													2.09
Greensburg [2] G			1.54	.52													.42	.06	.06		.01		.01									2.62
High Bridge, Lock No. 7 [2] K			.91	.27				.21		.18			T.			.48	.02			.02	.23	T.	T.									2.32
Irvington O																																
LaGrange O			.05				.16		.08			1.12	.87	2.39					1.89	.04			.08		T							6.98
Lancaster [2] K		.60	.40				.25						.12			.90	2.45			.26												4.98
Leitchfield [2] G		.06	.57					1.10	.13							T.		.04	.03	.60				T.								2.53
Lexington [4] K			1.08				.04		.18				T.	T.		.31		.12	T.		T.		.09									1.80
Little Hickman, Lock No. 8 [2] [4] K			1.70	.84				.26		.20			T.			.96	T.	1.30	.23	.28	.10	.10		T.								5.94
Lockport, Lock No. 2 [2] K			.62					.27	.16				.24	2.27					.69	.26				T.								4.51
LOUISVILLE [4] O		T.	.48				.18	T.	.04				.37	.43	.02	.04	.84	.03	.24	.26			.05									2.98
Do. Bowman Field O		.01	.10				.26	T.	.09			.04	.82	T.	.08	.29	T.	.18	.93	.03			.01									2.84
Mammoth Cave [2] G			1.28					.27								.31		.20	.18	.13	T.			.13								2.50
Monticello [2] C			.78					.76		.12				.02		.05	.01	.85							.25							2.84
Mumfordville [2] G			2.23					.51		T.						T.		.09	.06				T.									2.89
St. John [2] S			.02	.10				.14	.04				.64					.04		.29			T.									1.27
Salvisa, Lock No 6 [2] [4] K			1.56	.46				.11					.15			.67	.23		.82		T.		.11									4.11
Shelbyville [2] S			.25	T.				.21	T.				.26	T.			.35	T.	.91	.38												2.36
Shepherdsville S		T.	.15				1.04					.95	.07			.01	.02	1.07	.06	.19												3.56
Smith's Grove G			.97						.03											.17	.06											1.23
Stearns C			.44	.23			.20	.46		.67					.02	.16	.07	.07	.12	.03			T.	.21								2.68
Taylorsville O			.20															.35														2.55
Tyrone, Lock No. 5 [4] K			.86	.20				.10	.05	.02			.23			.12	.15		.29		.05		.02									2.09
Williamstown [2] L			.41	.05				.08	.03				.60	2.28					.20	.08			.03									3.76
Woodbury, Lock No. 4 [2] G			.90					.04	.26							.12			.80				T.							.01	.23	2.36
Eastern Division																																
Annville [2] C			.04	.01				.04		.11				.04	.01	.62	.80	.18		.04	.01				.01		T.				.08	1.99
Ashland [2] O				.06				.17		.06			2.30	.06						.13	.60				.06								3.44
Berea K									.10						.25	.35	.40		.40													1.50
College Hill, Lock No. 11 [2] K			.45		.07			.08		.35					.08	.11				.20	.36												1.70
Cumberland C						.16			.15		.10		.03	.26			T.	.80	T.	.04			.25	.25						.35		2.39
Cynthiana [2] L			1.24	.59				T.		.11			.61	.36	.41					.34												3.66
Falmouth [2] L			1.13	.02				.01	.02	T.			.09	1.89	T.				.06	.90				.02		.18						4.32
Farmers [2] L			.12	.19			.45		.03				.72	.12		.04		.44	.07	.59	.27											3.02
Flemingsburg [2] L			.32		.01					.43					.33					.57					.08							1.54
Ford, Lock No. 10 [2] [4] K			.96	.13				.29	T.	.23			.61			T.	.15	T.	.36	.06	.08		T.									2.87
Grayson [2] O								.60		.20			1.46					.10		.69	.36				.12								3.53
Greenup, Dam 30 [2] O			.03	.03				T.		.23	T.		.92	.20	T.					.19	T.			.10								1.70
Hazard [2] K				.35				.80		.55					.02				.25	.42			1.05	.10								3.54
Heidelberg, Lock No. 14 [2] K			.10					.14		.20			.80	T.	1.70			.60		T.	.03												3.17
Jackson [2] K			.27	.65			T.	.47		.20				T.	.53		.26	.52	1.16	.45												4.45
Jenkins [2] B				.02		.82		.09		.02		.05			.41									.07	2.05							3.53
Louisa [2] B										.20				.32				.10			.30	.12									.27	1.31
Maysville, Dam 33 [2] O			.25	1.12				.52		.21					1.24	.12			T.	.98				.01								4.46
Middlesboro C			.29						.33	.14		.10					.02						.07	.27						.03		1.22
Mount Sterling L								2.10					1.20			1.60	.10		.10	.40												5.50
Oneida [2] [4] K			.68							.65					.78																	2.06
Oneonta Dam 35 [2] O			.23	.03				.03	.12				.08	08					.15													0.72
Paintsville [2] B				.06				.32		.24			.24		.37			.33	.02	.52	.05			.25								2.23
Pikeville K				.01				1.02		.58					.26	.38		.02		.04	.01											2.27
Pippapass K		.28					.01		.61					.40	.62		.06	.33				.05	.11									2.47
Quicksand [2] K				.76						.62					.43	.51	.63	.40	.71	.14												4.14
Ravenna, Lock No. 12 [2] K				.36	.05			.26		.24			.52		.93		.5		T.	.13	T.		.09									3.32
Richmond [2] K		1.50	.60				.60								.30	.10	.03	.10	.10													3.33
Valley View, Lock No. 9 [2] K			.85	.15				.82		.24								.02		.05	.11											3.04
Vanceburg, Dam No. 32 [2] O				.07	.02			.62		.25			.17	.88						.54				.02								2.57
Williamsburg [2] C				.21	.07		.08	.16		.03			T		.06	.22		.09		.34				T.	.06						T.	1.32
Willow, Lock No. 13 [2] K					.11			.16		.46			.24		1.04	.14		.18			.06											2.42
Winchester K			1.16	.65				.11		.03			.80				.15		.13	.02	.05			T								2.53

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1] First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2] Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3] Precipitation measured with recording gage. [4] Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. † Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for August, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	90	88	90	90	85	88	88	93	86	87	94	95	93	91	92	89	88	86	84	85	84	84	79	88	91	88	86	88	88	90	92	88.4
	Minimum	60	67	71	62	56	57	68	70	67	61	62	68	71	80	67	67	68	66	66	68	60	60	65	65	69	62	54	65	57	62	67	63.5
Calhoun	Maximum	93	88	87	90	88	87	90	91	80	93	94	90	..	96	95	93	90	88	82	88	81	86	85	88	93	90	88	90	91	92	92	89.5
	Minimum	69	74	76	..	..	..	..	..	..	..	..	..	..	..	..	70	70	69	70	67	70	64	68	63	62	65	60	68	59	65	60	60	60.2
Earlington	Maximum	92	92	88	89	88	88	93	93	91	92	88	88	93	95	95	96	96	90	90	89	82	83	82	86	85	87	92	85	89	86	87	89.4
	Minimum	61	65	70	69	59	63	71	73	61	62	67	74	75	74	71	70	69	69	66	68	62	52	62	64	67	62	64	66	55	55	63	65.1
Greenville	Maximum	91	88	89	90	87	88	92	93	86	95	96	95	95	96	93	90	89	84	87	87	87	88	89	91	88	85	86	87	89	91	89	89.6
	Minimum	68	66	68	61	57	58	64	64	67	60	60	68	69	66	65	65	66	65	65	64	59	50	62	64	69	60	56	53	66	61	65	61.6
Henderson	Maximum	90	83	91	86	83	85	86	90	82	80	93	93	99	96	92	95	92	92	88	91	83	85	72	92	92	86	83	85	92	93	93	88.3
	Minimum	60	70	70	62	57	60	67	71	66	57	61	67	71	71	68	67	68	68	66	64	59	50	65	59	69	61	65	66	69	63	59	63.4
Hopkinsville	Maximum	92	87	88	90	90	85	91	90	80	85	94	95	93	94	94	91	92	88	90	86	85	90	85	90	92	90	87	87	89	91	93	89.7
	Minimum	62	67	68	63	64	63	69	68	69	61	63	69	69	69	69	70	70	68	67	66	64	61	50	60	65	60	62	69	56	60	62	57	63.9
Lovelaceville	Maximum	94	84	89	91	87	86	90	85	83	87	91	93	94	92	90	90	91	86	85	87	84	90	87	89	88	89	84	87	90	92	93	88.6
	Miuimum	60	71	70	61	65	67	72	70	68	62	63	69	70	71	68	69	69	62	71	67	61	59	49	64	60	62	63	57	55	66	60	56	63.8
Mayfield	Maximum	93	88	92	93	85	87	91	..	90	88	95	93	94	95	92	91	91	90	86	89	85	90	88	88	89	89	85	87	89	91	93	89.7
	Minimum	62	70	70	64	66	66	70	72	68	68	69	64	70	70	68	68	72	..	..	..	..	..	..	..	..	..	61	62	63	63	63	66.4
Murray	Maximum	91	82	90	91	81	87	91	88	81	85	85	89	95	86	92	90	87	89	90	92	91	90	90	91	91	85	87	90	90	92	88.4
	Minimum	65	72	72	71	66	68	68	72	70	63	71	71	66	72	70	74	65	71	70	73	72	56	65	63	64	65	61	60	68	61	62	67.5
Owensboro	Maximum	87	86	86	86	85	85	85	89	80	85	90	92	91	90	90	89	87	84	83	84	78	79	76	84	88	83	84	85	86	87	87	85.4
	Minimum	61	63	67	68	59	60	66	68	65	62	62	65	65	70	70	70	68	67	65	65	60	52	62	62	69	64	59	60	60	59	69	63.3
Paducah	Maximum	98	85	92	94	88	88	96	92	80	89	94	98	96	96	94	96	93	90	88	90	86	92	80	90	92	92	88	89	92	90	92	90.7
	Minimum	63	72	72	66	66	68	72	74	70	66	66	72	72	74	74	74	72	73	62	66	64	54	64	62	63	68	60	62	62	64	62	67.1
Paducah (near)	Maximum	94	91	92	94	89	86	93	90	84	88	94	95	96	96	95	95	94	91	86	91	86	91	85	91	91	91	88	91	91	93	94	91.2
	Minimum	59	73	71	61	65	70	73	72	68	61	64	70	70	70	69	68	68	70	66	62	59	50	65	60	61	63	66	54	56	61	58	64.5
Princeton	Maximum	93	85	88	90	87	83	93	91	..	..	..	94	94	92	93	93	90	92	83	90	87	90	84	91	93	92	86	88	92	93	94	90.1
	Minimum	63	71	71	65	67	65	71	72	..	..	..	72	73	71	71	68	69	69	71	63	63	64	65	61	65	59	57	60	63	63	63	66.1
Russellville§§	Maximum	80	80	85	83	78	87	79	79	78	81	90	80	84	89	87	77	88	85	85	84	80	76	79	87	90	85	75	78	79	84	78	82.2
	Minimum	62	67	69	64	61	61	63	65	71	60	62	69	69	69	67	69	68	67	66	65	64	62	60	65	58	60	55	53	58	63	58	63.2
Central Division.																																	
Anchorage	Maximum	85	89	85	84	85	89	89	91	79	81	88	91	90	88	89	89	86	83	82	81	76	79	78	85	89	85	88	85	86	86	87	85.0
	Minimum	62	66	71	61	55	66	65	66	68	58	59	68	68	68	68	68	63	67	67	67	63	53	61	61	68	62	58	57	56	59	58	62.6
Bowling Green	Maximum	88	90	88	90	88	86	89	94	84	87	93	95	93	94	93	90	90	88	85	88	85	89	83	92	94	90	88	87	92	89	94	89.4
	Minimum	65	66	71	68	63	63	79	68	74	66	67	71	72	73	71	73	70	73	68	65	67	55	65	69	63	65	61	60	63	67	67	67.4
Danville	Maximum	86	90	86	87	83	87	79	88	82	80	90	91	90	89	88	83	85	87	87	85	83	84	81	86	87	82	83	85	86	88	89	85.7
	Minimum	60	62	61	61	55	52	55	58	65	52	53	61	60	61	58	61	67	66	67	66	63	50	54	64	56	61	54	58	57	60	58	59.2
Dix Dam	Maximum	89	92	89	87	84	83	84	86	87	82	92	92	92	92	92	90	88	88	87	86	86	82	88	90	84	85	87	87	90	90	90	87.6
	Minimum	63	63	70	65	56	59	67	68	74	60	61	70	70	73	69	72	72	67	70	69	67	54	68	67	68	63	56	57	58	62	59	64.4
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	59	62	65	64	66	63	61	64	71	61	61	67	67	67	67	69	67	64	65	63	61	48	52	63	55	56	53	56	54	56	55	61.4
Frankfort	Maximum	91	92	91	86	85	89	86	91	84	83	93	92	91	87	92	90	90	90	87	86	81	85	80	90	92	84	87	88	90	90	92	88.2
	Minimum	63	68	70	68	56	58	64	65	68	57	57	66	68	69	67	68	67	65	68	67	68	53	65	63	65	62	63	55	58	58	58	62.0
Glasgow	Maximum	87	90	87	87	88	89	89	90	90	89	87	92	93	91	88	87	85	88	88	85	85	86	86	86	89	91	88	87	85	87	91	88.3
	Minimum	61	65	70	63	59	58	68	71	74	63	64	70	71	70	67	76	69	67	69	68	66	51	60	67	59	59	57	54	57	60	67	64.2
Greensburg	Maximum	91	92	89	90	87	91	88	91	87	87	95	98	98	92	92	88	92	89	91	85	85	89	86	90	93	88	86	88	91	92	94	90.6
	Minimum	58	61	67	60	55	56	64	63	70	59	61	66	67	68	65	69	67	66	63	65	62	47	54	65	56	57	62	52	55	55	64	60.6
Irvington	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Leitchfield	Maximum	90	90	88	87	88	89	84	89	82	86	92	93	93	94	93	90	90	90	85	85	80	86	82	87	92	86	85	87	89	92	91	88.2
	Minimum	62	68	70	65	57	58	66	69	66	64	64	70	71	72	69	70	69	68	66	68	62	52	64	65	58	63	59	57	59	61	69	64.2
Lexington	Maximum	89	91	87	84	85	90	82	91	82	84	90	95	93	90	91	85	89	90	88	84	80	85	82	87	89	84	84	87	86	89	90	87.2
	Minimum	63	65	67	66	56	59	66	66	68	59	63	70	68	70	67	69	68	67	68	66	58	52	55	64	54	60	57	60	58	62	58	62.8
Louisville	Maximum	87	88	87	84	83	88	88	93	80	84	90	88	91	88	89	89	86	87	82	84	78	82	77	86	85	82	83	85	85	87	87	85.4
	Minimum	67	69	72	68	63	65	66	72	67	66	66	71	71	72	73	74	70	70	68	70	64	60	66	66	64	65	61	64	67	66	64	67.3
Do. Bowman Field	Maximum	87	90	88	85	86	88	83	91	80	85	90	92	91	88	93	85	88	90	80	85	78	83	79	86	89	84	84	86	86	87	88	86.5
	Minimum	64	67	71	64	58	59	67	70	65	62	62	70	70	71	69	71	68	70	68	68	61	54	64	64	59	64	60	60	61	61	60	64.6
Mammoth Cave	Maximum	89	89	87	87	84	87	85	90	85	85	90	91	91	89	89	85	89	89	85	84	84	85	82	86	89	86	84	86	88	88	90	87.0
	Minimum	67	62	68	62	66	56	64	69	69	58	61	67	68	66	64	67	66	64	64	66	63	47	58	63	55	56	53	51	55	56	54	60.8
St. John	Maximum	90	89	91	87	85	88	84	90	85	84	92	92	91	89	89	89	89	88	86	87	81	84	79	85	81	85	85	88	88	91	90	87.1
	Minimum	65	65	70	65	69	59	67	67	71	62	65	67	67	67	68	67	67	67	66	67	67	53	64	64	69	64	58	60	61	62	60	64.1
Shelbyville	Maximum	89	89	86	82	86	88	80	87	88	82	92	93	91	88	90	85	85	87	83	82	78	80	78	85	90	81	85	85	86	88	89	85.7
	Minimum	62	62	68	62	56	58	64	65	65	57	59	66	67	67	68	67	66	64	65	65	63	51	56	61	56	60	56	57	58	57	59	61.5
Smith's Grove	Maximum	89	88	89	87	86	87	85	90	81	86	92	92	92	90	91	85	90	86	86	86	81	86	84	89	92	89	86	88	89	90	92	87.9
	Minimum	62	66	71	66	56	59	68	69	72	64	65	70	73	71	69	70	70	66	66	68	66	52	63	67	60	60	58	57	57	61	57	64.6
Stearns	Maximum	86	88	75	85	82	86	75	88	86	85	89	89	89	89	84	84	84	83	85	88	82	80	84	84	84	84	83	85	88	88	89	84.6
	Minimum	60	60	66	64	60	59	62	65	69	64	65	68	67	70	68	69	67	66	69	68	62	51	54	64	67	59	58	58	58	58	58	62.7
Taylorsville	Maximum	85	91	86	85	86	85	83	88	84	88	90	90	89	88	89	85	87	88	85	89	79	81	78	84	87	81	82	84	84	85	89	86.0
	Minimum	64	58	64	68	67	68	64	72	68	62	60	67	66	69	66	70	68	67	68	65	59	62	59	64	56	60	55	56	56	58	66	63.4
Williamstown	Maximum	91	91	87	82	87	85	80	90	83	86	92	96	94	91	90	88	88	85	82	86	80	83	80	86	87	83	84	86	86	87	88	86.6
	Minimum	66	65	69	64	61	60	61	67	72	62	61	69	68	68	68	70	67	68	67	67	65	56	58	64	63	60	58	60	61	62	63	64.2
Eastern Division.																																	
Annville	Maximum	87	89	81	87	84	88	77	90	87	85	98	..	93	85	87	86	89	89	86	81	80	88	85	81	87	84	86	86	85	87	87	85.8
	Minimum	56	58	66	62	54	56	60	58	70	59	57	68	..	64	64	67	60	69	65	66	58	46	47	60	55	55	54	53	52	56	53	59.0
Ashland	Maximum	91	90	84	83	87	87	84	88	85	85	95	97	93	92	91	92	91	89	89	85	86	87	84	89	88	90	84	81	86	85	90	87.8
	Minimum	64	67	68	67	65	60	64	67	75	58	58	69	66	70	68	69	69	69	70	72	68	66	54	55	65	63	64	56	59	60	58	64.3
Berea	Maximum	..	..	..	..	..	..	..	91	90	84	91	95	96	88	90	85	97	..	88	85	80	83	85	77	86	92	83	87	86	87	88	87.3
	Minimum	..	..	..	..	..	..	..	69	71	68	61	71	69	65	65	69	62	..	68	68	65	58	69	56	59	57	55	57	57	60	68	62.6
Cumberland	Maximum	86	89	88	89	87	88	89	92	88	87	94	90	88	81	84	83	87	86	88	87	84	86	88	84	85	84	84	82	83	86	87	86.8
	Minimum	63	66	69	62	60	60	62	61	62	67	69	63	62	65	66	67	62	67	66	65	62	59	49	59	63	55	54	55	56	55	55	60.0
Farmers	Maximum	90	90	82	86	88	88	88	79	91	82	84	96	92	92	92	80	93	81	89	80	86	86	82	81	88	92	91	85	85	87	87	86.6
	Minimum	68	64	69	65	55	59	61	68	74	58	55	67	62	70	67	69	67	67	69	67	61	52	59	64	60	59	53	57	57	59	59	61.9
Heidelberg	Maximum	89	92	83	89	86	89	80	91	85	84	94	95	92	85	89	80	87	90	90	82	86	87	82	88	86	84	85	86	86	88	88	86.8
	Minimum	61	62	69	66	60	61	63	61	67	63	58	66	66	69	69	72	70	70	67	69	62	51	52	64	63	61	55	57	57	56	57	62.7
Maysville	Maximum	89	91	84	84	86	89	82	92	88	87	93	91	91	91	91	88	90	88	90	88	82	83	78	84	91	86	87	88	88	89	91	87.1
	Minimum	64	65	69	63	58	60	63	65	75	67	61	70	67	70	70	72	71	69	72	67	65	54	56	65	59	60	64	58	62	59	60	63.9
Middlesboro	Maximum	81	79	77	76	80	79	79	..	72	72	93	88	86	80	88	89	80	..	..	..	82	..	87	80	..	..	..	87	86	84	90	82.5
	Minimum	62	63	65	67	61	60	69	..	60	69	63	65	65	65	65	71	68	..	..	..	63	49	48	62	..	..	..	57	57	67	58	61.4
Mount Sterling	Maximum	87	90	87	91	86	87	81	90	82	84	93	93	93	88	92	88	89	87	87	84	72	81	83	86	88	83	85	86	86	87	89	86.6
	Minimum	63	64	69	64	57	57	64	65	72	57	56	69	68	73	67	70	68	67	69	66	65	54	55	65	59	59	54	51	56	55	58	63.4
Pikeville	Maximum	91	88	83	87	86	86	87	91	91	85	90	92	96	90	92	86	86	84	84	84	81	85	85	87	86	81	86	86	85	85	86	86.1
	Minimum	67	67	67	69	63	65	63	63	67	65	62	64	67	71	70	70	70	70	70	69	68	60	56	64	67	64	61	61	64	64	62	65.6
Pippapass	Maximum	81	79	77	80	84	86	83	79	79	85	90	90	89	89	86	90	87	91	89	81	79	78	87	81	83	85	87	85	91	88	84	84.4
	Minimum	61	60	60	61	57	58	59	60	63	59	60	61	62	64	69	64	68	69	61	58	54	52	50	61	66	59	61	56	50	56	54	59.9
Quicksand	Maximum	93	92	85	88	88	85	90	83	91	88	94	95	94	92	92	90	92	88	89	89	82	83	85	90	93	88	84	84	87	87	85	87.5
	Minimum	63	63	66	66	59	61	62	62	65	59	58	66	65	69	67	68	67	65	66	66	60	53	53	58	64	62	59	55	59	60	59	62.1
Richmond	Maximum	88	90	82	84	85	87	78	88	82	82	88	90	90	90	90	80	88	90	88	82	80	84	80	85	88	85	85	88	88	88	88	85.8
	Minimum	66	68	70	65	62	63	68	68	72	62	65	72	72	72	70	73	70	70	70	70	67	58	63	65	60	63	62	60	56	58	60	65.6
Williamsburg	Maximum	88	92	86	81	88	90	89	92	90	92	95	93	90	89	88	90	90	92	91	84	88	86	89	86	83	89	86	89	90	90	92	88.9
	Minimum	61	62	68	66	58	63	62	63	64	66	67	64	62	63	62	62	62	62	62	62	59	53	55	57	60	56	53	56	58	58	58	61.5
Winchester	Maximum	85	87	85	84	83	86	77	87	80	80	90	88	87	87	90	84	85	88	86	84	78	81	81	84	87	80	82	84	88	88	88	84.6
	Minimum	62	62	67	65	58	60	64	66	73	54	62	70	68	70	68	71	68	66	69	68	65	56	59	66	59	61	51	59	68	56	59	63.2

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a, b, c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville, 9-26-39. 11m

51.05
N12
.99
No.9

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., SEPTEMBER, 1939 No. 9

GENERAL SUMMARY.

Temperatures above the seasonal average during most of the month advanced late crops toward maturity much more rapidly than usual. Except in the northeastern counties, where the rainfall was moderate to heavy, the increasing dryness also accelerated the ripening of late vegetation. In most of the State late corn and tobacco failed of complete development and were harvested in this condition. The dry hot weather prevailed until the 29th, and by this time all corn and tobacco of consequence were safe from frost. On account of the low humidity and high temperature, tobacco cured more rapidly than desirable. Some stripping occurred in the burley district in the short rainy period at the end of the month. Corn dried so quickly that cutting could not keep pace with its changing condition, resulting in loss of fodder. Gathering began in a limited way in the last week.

Gardens deteriorated, pastures gradually dried, and water supplies diminished until hauling became necessary. Even the growth of cotton and production of bolls declined. Late potatoes grew slowly to the stage of setting tubers, then remained practically at a standstill. The rains of the last day helped the best developed plants in some western counties, but in most of the State the late potato crop promised to be a failure. The drying of the soil finally caused the suspension of preparations for fall seeding. The sowing of rye for pasture could not be fully accomplished. These adverse conditions were less pronounced in the northeastern counties, where rains about the middle of the month provided better conditions for growth than in other parts of the State.

The weather was ideal for making late hay. As soil moisture disappeared the growth of alfalfa and soybeans decreased. Perfect curing, without the usual loss from fall rains, largely made up for the lessened yields. Field tomatoes suffered from high temperature and the period of production was shortened. The rain of the 29-30th made possible the resumption of plowing in some central and western districts and seeding on corn and tobacco stubble. In much of the State, however, the ground remained too dry to be properly conditioned for sowing grain. These rains temporarily relieved the developing water shortage.

TEMPERATURE.

The temperature averaged 4.0° to 6.5° above normal in the central and western divisions, but the excess was not so great in eastern districts where there was more cloudiness and rain. In the western counties temperatures were continuously above normal until the 29th. During the first half of the month maximum temperatures of 90° to 100° occurred on most days, and the highest temperature of the season was registered at most stations. The 30th was the only abnormally cool day. Extremes for the State were 39° at Taylorsville on the 23d and 105° at Princeton on the 8th.

PRECIPITATION.

Precipitation averaged about one-third of the normal amount. In the western counties nearly all of it occurred in one rain, on the 29-30th. In the central and eastern divisions there were two light but fairly general rains, one on the 4-5th and the other on the 29-30th. In most central counties irregular and occasionally heavy showers fell in the period 19-20th. There were scattered showers from the 10th to 17th, but few of them were heavy enough to be of consequence. Limited areas in the eastern mountain region and the northeastern counties received from 3.0 to 5.0 inches. In other eastern districts and a belt through the central counties most stations reported from 1.0 to 2.0 inches. Less than 1.0 inch occurred in the district from the lower Cumberland to the lower Licking and also in much of the south-central part of the State. For the State amounts varied between 0.22 inch at Owensboro, Dam 46, and 5.69 inches at Maysville. Days with thunderstorms were: 2, 4, 10, 15, 16, 29.

ERRATA.—August, 1939, page 30. Paducah, date of highest temperature should be 1t. Berea, lowest temperature should be 55 on 27th. Pippapass, greatest 24-hour precipitation should be 0.62.

MISCELLANEOUS.

Rivers.—Pool stages, with but little change, prevailed in all streams during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 6.30 a. m.	12.30 p. m.	6.30 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.00	30.26	19	29.75	26	6.8	20	n.	30	74	44	49	91
Cincinnati ..... Ohio	30.03	30.34	18	29.77	29	6.5	32	nw.	22	80	38	46	80
Evansville..... Ind.	30.01	30.26	18	29.76	27	7.4	28	sw.	29	70	40	45	88
Louisville ..... Ky.	30.02	30.27	18	29.77	27	7.7	26	sw.	4	83	44	52	85

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	72.1	101	36	1.23	..	..	..	..	..
1890	67.0	95	36	2.71	..	..	..	..	..
1891	69.5	97	42	1.89	..	..	..	..	..
1892	68.5	93	38	2.68	..	..	..	..	..
1893	69.6	99	35	3.24	..	..	..	..	..
1894	71.7	98	37	2.71	..	..	..	..	..
1895	73.4	101	27	1.10	0	..	19	8	3
1896	68.6	100	30	3.77	0	8	14	9	7
1897	72.8	105	31	0.21	0	7	26	4	0
1898	73.4	103	42	4.36	0	1	17	8	5
1899	68.7	105	27	1.66	0	9	18	8	4
1900	74.6	102	35	2.25	0	5	15	9	6
1901	68.1	98	33	3.57	0	6	18	7	5
1902	67.3	97	29	4.01	0	6	13	7	10
1903	69.1	100	32	0.91	0	10	21	6	3
1904	71.1	99	34	2.58	0	4	15	7	8
1905	70.2	95	36	2.61	0	8	16	6	8
1906	73.0	95	45	6.15	0	6	11	7	12
1907	69.1	102	35	3.00	0	13	17	5	8
1908	71.6	101	30	1.03	0	6	18	8	4
1909	67.7	97	32	2.51	0	3	16	7	7
1910	71.8	99	38	4.41	0	6	14	8	8
1911	74.3	99	46	3.71	0	9	13	8	9
1912	71.0	103	33	2.80	0	10	18	6	6
1913	69.6	106	29	2.49	0	7	11	7	12
1914	67.8	97	36	2.96	0	9	18	6	6
1915	70.7	99	32	3.32	0	6	17	8	5
1916	67.2	98	32	3.48	0	7	20	5	5
1917	67.7	98	34	2.56	0	6	18	7	5
1918	62.8	92	30	2.94	0	5	15	6	9
1919	71.5	102	40	1.69	0	8	20	6	4
1920	70.8	96	38	3.30	0	4	14	8	8
1921	75.5	99	45	5.37	0	9	10	11	9
1922	72.7	103	39	2.22	0	13	20	6	4
1923	66.8	94	30	2.87	0	5	15	7	8
1924	65.3	97	35	4.49	0	8	14	7	9
1925	77.2	110	45	2.83	0	10	15	7	8
1926	73.5	98	40	3.78	0	9	14	8	8
1927	73.2	103	30	2.87	0	6	16	9	5
1928	65.5	99	24	0.81	0	3	20	6	4
1929	69 5	97	35	4.69	0	11	13	8	9
1930	72.6	101	38	2.46	0	8	13	9	8
1931	75.1	103	36	2.74	0	5	20	6	4
1932	69.5	103	34	3.66	0	8	16	6	8
1933	74.3	98	40	5.03	0	9	17	6	7
1934	69.2	95	39	4.82	0	10	13	9	8
1935	68.8	99	31	2.75	0	5	21	4	5
1936	74.4	101	41	3.57	0	7	12	10	8
1937	67.8	98	29	1.84	0	5	16	7	7
1938	70.3	101	37	3.52	0	8	14	9	7
1939	74.5	105	39	1.26	0	3	21	5	4
Period	70.6	110	27	2.93	0	7	16	7	7

151 year averages.

UNIVERSITY OF KENTUCKY LIBRARY

Climatological Data for September, 1939.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	27	75.4	+ 4.5	103	8	41	11	45	0.26	−2.42	0.24	0	2	23	5	2	s.	Eldred G. Young.
Calhoun	McLean	437	35	76.4	+ 4.5	104	14	45	22†	48	0.49	−2.59	0.42	0	2	28	0	2	.....	R. C. Bennett.
Earlington	Hopkins	420	45	76.6	+ 4.9	100	8†	44	22	45	1.02	−1.85	1.00	0	2	28	0	2	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	0.71	−3.97	0.70	0	2	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	1.17	.....	1.09	0	2	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	75.4	+ 4.3	103	8	42	22	43	0.40	−2.17	0.35	0	2	28	0	2	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	0.43	.....	0.32	0	3	26	2	2	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	75.4	.....	104	8	41	22	46	0.73	−2.73	0.56	0	4	26	3	2	s.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	76.4	+ 4.2	104	13†	48	23	44	0.66	−2.50	0.54	0	4	25	1	4	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	75.7	+ 4.7	101	14	43	22†	47	1.03	−3.18	0.65	0	2	27	1	2	s.	Blaine Malone.
Mayfield	Graves	364	30	*78.0	+ 5.8	101	9†	51*	30	38*	1.64	−1.54	0.76	0	3	23	5	2	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	78.1	+ 6.4	102	14	45	30	39	0.97	−3.31	0.75	0	2	5	13	12	s.	Pat W. Wear.
Owensboro	Daviess	420	42	73.2	+ 2.8	99	9	43	22	42	0.25	−2.99	0.25	0	1	26	2	2	.....	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	0.22	−3.31	0.22	0	1	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	78.4	+ 4.0	104	9	52	22†	46	1.12	−2.15	1.02	0	3	18	9	3	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	77.4	+ 4.4	104	14	41	22	38	1.08	−2.11	0.98	0	2	25	3	2	.....	Joe Lagore.
Princeton	Caldwell	529	32	77.8	+ 0.0	105	8†	49	22†	40	0.77	−2.67	0.63	0	2	21	7	2	s.	S. J. Lowry.
Rumsey, Lock 2	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	0.48	−2.67	0.48	0	1	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	73.4	+ 1.5	100	9	43	22	40	0.54	−2.53	0.33	0	3	23	3	4	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	0.60	−4.10	0.57	0	2	.....	.....	.....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	11	.....	.....	.....	.....	.....	.....	.....	0.46	−2.59	0.28	0	3	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	73.2	+ 4.2	99	8†	41	22	46	0.94	−1.78	0.51	0	4	26	2	2	sw.	C. E. Barret.
Bowling Green	Warren	500	43	78.8	+ 5.9	103	8†	51	23	41	1.15	−2.24	0.95	0	2	20	7	3	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	1.12	−2.10	0.90	0	2	..	..	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	.....	.....	.....	.....	.....	1.12	−2.50	0.78	0	4	.....	.....	.....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	1.48	−1.77	0.96	0	3	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 86	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	0.92	−2.97	0.43	0	4	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	73.9	.....	99	14	45	22	47	0.81	−2.71	0.48	0	5	23	4	3	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	75.4	+ 3.5	102	14	45	22†	46	2.16	−1.18	0.70	0	5	15	11	4	s.	Kentucky Utilities Co.
Eadsville	Wayne	672	.....	.....	.....	.....	.....	.....	.....	.....	1.72	.....	0.60	0	5	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	43	.....	.....	.....	.....	43	12	.....	0.63	−2.87	0.48	0	3	23	5	2	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	78.9	+ 4.4	103	14	41	22†	52	0.34	−2.42	0.29	0	2	26	1	3	sw.	Lockmaster.
Gest, Lock 8	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	0.68	−2.46	0.21	0	4	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	75.5	+ 2.6	99	8†	44	22	50	0.88	−2.37	0.52	0	3	19	10	1	nw.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	0.61	−2.87	0.49	0	4	..	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	78.3	+ 3.5	102	8†	40	22†	54	1.16	−3.13	0.73	0	3	10	1	19	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	1.23	−1.67	0.83	0	4	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	75.6	+ 5.0	99	9	48	22†	42	0.54	−2.86	0.51	0	3	19	8	3	sw.	L. O. Stiles.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	1.01	.....	0.60	0	4	25	2	3	sw.	J. C. Ogg.
Lancaster	Garrard	1032	13	.....	.....	.....	.....	.....	.....	.....	1.91	−1.02	0.52	0	5	.....	.....	.....	.....	Kentucky Utilities Co.
Leitchfield	Grayson	635	43	76.3	+ 6.1	103	14	46	23	47	0.53	−2.94	0.51	0	2	23	6	1	sw.	H. H. Willis.
Lexington	Fayette	989	55	74.6	+ 6.1	101	8	46	22	45	1.59	−1.48	0.84	0	4	24	3	3	.....	U. S. Weather Bureau.
Littlelickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	1.15	−2.05	0.60	0	2	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	0.97	−2.11	0.41	0	4	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	75.6	+ 5.1	99	9	48	30	38	1.20	−1.58	0.88	0	5	22	5	3	sw.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	74.1	.....	99	9	45	28	45	1.03	.....	0.40	0	4	..	..	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	73.4	.....	100	8†	40	22	52	1.22	.....	0.91	0	2	18	11	1	.....	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	1.26	.....	0.60	0	3	20	5	5	.....	E. O. Cooper.
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	1.75	−0.93	1.46	0	2	.....	.....	.....	.....	Chester Williams.
St. Jonn	Hardin	777	43	75.0	+ 5.6	103	8†	48	23	47	0.51	−2.64	0.36	0	3	18	7	5	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	0.94	−2.12	0.90	0	2	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	73.8	+ 4.2	100	8†	45	22†	42	1.16	−1.68	0.52	0	6	20	1	9	s.	Willa S. Rutta.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	0.97	.....	0.73	0	2	17	12	1	sw.	C. W. Guernsey.
Smith's Grove	Warren	607	1	76.0	.....	101	14	50	21†	40	1.08	.....	0.67	0	2	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	8	73.9	.....	98	14	50	21†	35	1.03	.....	0.44	0	6	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	71.8	+ 3.2	99	9	39	23	47	0.95	−2.21	0.55	0	3	28	2	0	nw.	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	540	21	.....	.....	.....	.....	.....	.....	.....	0.98	−2.23	0.58	0	2	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	74.8	+ 5.6	100	8†	48	22†	42	0.63	−2.00	0.28	0	3	26	1	3	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	0.68	−2.02	0.56	0	2	.....	.....	.....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	*70.1	.....	97b	9	40b	23	45b	1.75	.....	0.65	0	8	17	10	3	sw.	W. A. Worthington.
Ashland	Boyd	534	22	73.3	+ 2.8	100	8†	49	22†	40	2.07	−0.37	0.60	0	4	21	7	2	w.	Lockmaster.
Berea	Madison	1070	36	74.2	+ 4.3	97	8†	46	22	45	1.63	−1.81	0.52	0	4	18	8	4	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	1.57	−1.25	0.90	0	4	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	70.4	.....	97	9	41	12	46	0.60	.....	0.47	0	2	22	4	4	sw.	Olon Cook.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	0.51	−2.87	0.51	0	1	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	1.20	−1.42	0.75	0	4	.....	.....	.....	.....	Jessie Oldham.
Farmers	Rowan	668	32	71.3	+ 3.0	99	9	40	23	45	0.90	−1.82	0.72	0	3	17	10	3	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	1.79	−1.56	0.94	0	5	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	28	.....	.....	.....	.....	.....	.....	.....	1.18	−1.89	0.60	0	3	..	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	1.61	−0.60	1.06	0	3	...	..	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	2.44	−0.04	1.50	0	5	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	2.96	−0.24	1.55	0	4	.....	.....	.....	.....	H. A. Bally.
Heidelberg, Lock 14	Lee	668	4	72.3	.....	99	9	44	23	40	1.67	−1.47	0.67	0	6	17	8	5	sw.	Lockmaster.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	2.80	.....	1.68	0	4	.....	.....	.....	.....	Jas. T Golf.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	1.80	−1.14	0.75	0	5	..	.....	.....	.....	R. J. Howard.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	1.46	−1.18	0.67	0	3	...	.....	.....	.....	Zeb Hefton.
Maysville, Dam 33	Mason	524	41	72.8	+ 3.1	98	8	43	22	43	5.09	+2.20	3.27	0	7	14	13	3	s.	Lockmaster.
Middlesboro	Bell	1128	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Matthew Woodson
Mount Sterling	Montgomery	980	46	73.0	+ 4.8	99	14	44	23	38	1.50	−1.68	0.60	0	5	15	13	2	sw.	W. R McKee.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	1.31	.....	0 80	0	2	..	..	.....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	0.93	−2.36	0.51	0	4	...	.....	.....	.....	Lockmaster.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	1.52	.....	0.74	0	3	...	.....	.....	.....	L. Donta.
Pikeville	Pike	636	3	73.6	.....	100	9	49	23	37	1.70	−1.26	0.60	0	5	...	.....	.....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	71.0	.....	95	7†	46	14	44	3.18	.....	1.30	0	5	21	8	1	w.	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	71.0	+ 0.8	100	9	46	12	49	2.82	−1.53	1.05	0	3	...	..	.....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	2.93	−0.63	1.67	0	4	...	.....	.....	.....	Lockmaster.
Richmond	Madison	926	46	77.2	+ 6.1	100	9†	50	22	50	1.55	−1.44	0.70	0	4	24	0	6	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	1.72	−1.69	0.98	0	4	...	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	3.56	+0.92	2.09	0	7	...	.....	.....	.....	Lockmaster.
Williamsburg	Whitley	939	42	72.8	+ 1.6	100	9†	43	30	46	1.11	−2.41	0.62	0	4	23	3	4	.....	Wadely West.
Willow, Lock 13	Lee	646	19	.....	.....	.....	.....	.....	.....	.....	2.34	−0.72	1.15	0	4	...	.....	.....	.....	Lockmaster.
Winchester	Clark	964	....	73.8	....	100	14	45	22	38	1.06	.....	0.63	0	3	...	.....	.....	.....	Airway Station.
State averages and extremes		.....	.....	74.5	+ 3.9	105	8†	39	23	54	1.26	−1.67	3.27	0	3	21	5	4	s.	

All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determiningsection or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for September, 1939.

Stations	Day of month																													Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G																													.02	.24		0.26
Calhoun G																													.07	.42		0.49
Earlington [2] G				.02																										1.00		1.02
Fords Ferry Dam 60 [2] O			T.	.01																									T	.70		0.71
Gilbertsville [2] T																													.08	1.09		1.17
Greenville G																													.05	.35		0.40
Hartford G				.07																									.04	.37		0.48
Hunderson O				.02													.03												.12	.56		0.73
Hopkinsville [2] C										.02						.06													.04	.54		0.66
Lovelaceville M																													.48	.55		1.03
Mayfield M		.58													T.														.85	.76		1.04
Murray T		T.																											.22	.75		0.97
Owensboro [2] O			T.							T.																				.25		0 25
Owensboro, Dam 46 [2] O																														.22		0.22
Paducah [2] O		.07																											.03	1.02		1.12
Paducah (near) [2] O		.10																											.98			1.08
Princeton G				T.																									.14	.63		0.77
Rumsey, Lock No. 2 [2] G																														.48		0.48
Russellville [2] G				.10													11												.33			0.54
Uniontown, Dam 49 [2] O				.03													T.													.57		0.60
Central Division																																
Addison, Dam 45 [2] O				.28						.01																				.17		0.46
Anchorage O			T.	.02						.13																			.28	.51		0.94
Bowling Green G				.20																										.95		1.15
Bowling Green [2] G				.08																									T.	.61		0.69
Brownsville, Lock No. 6 [2] G				.22																										.90		1.12
Burnside [2]					.78					T.					.17					.12										.05		1.12
Carrollton Lock No. 1 [2] K				.15						.22																				.96		1.33
Cold Spring, Dam 36 [2] O					T.	.43					.04						.03								T	T.				.42		0.92
Danville [2] K					.09										.17	.04			T.										.03	.42		0.81
Dix Dam, Burgin K				.33										.70				.02											.55	.56		2.16
Eadsville [2] L					.60										.20				.15	.58										.19		1.72
Eubank C																		.10	.05											.48		0.63
Frankfort, Lock No. 4 [2] K				T.	T.					T.							.05													.29		0.34
Gest, Lock No. 3 [2] K				.10						.21																			.16	.21		0.68
Glasgow G				.31											.05															.52		0.88
Grant, Dam 33 [2]			.02	T.	.05					.05							T.													.43		0.61
Greensburg [2] G					.31										.12															.73		1.16
High Bridge, Lock No. 7 [2] K					.22										.08					.10									T.	.88		1.23
Irvington O				.11																									.12	.31		0.54
LaGrange O				.19													.04			T.									.18	.60		1.01
Lancaster [2] K				.52																.20	.30								.40	.49		1.91
Leitchfield [2] G				.02																										.51		0.53
Lexington [2] K		T		.16										T.						.15								T.	.75	.53		1.79
Little Hickman, Lock No. 8 [2] † K				.55																									.60			1.15
Lockport, Lock No. 2 [2] K				.12	.08					.41																				.41		0.97
LOUISVILLE [2] † O			T.	.17						.08						.01									T.				.36	.58		1.20
Do. Bowman Field O				.18						.12																			.40	.83		1.03
Mammoth Cave [2] G				.31											T.															.91		1.22
Monticello [2] C					.60							.10								.56												1.26
Munfordville [2] G					.29																											1.46
St. John [2] S				.05	.10															T.										.36		0.51
Salvisa, Lock No 6 [2] † K					T.															.04										.90		0.94
Shelbyville [2] S				.01	.02					.03							.56	.02		T.										.52		1.16
Shepherdsville S				.24																										.78		0.97
Smith's Grove G					.41																									.67		1.08
Stearns O					.15										.10					.44	.18	.02								.14		1.03
Taylorsville O				.25																									.15	.55		0.95
Tyrone, Lock No. 5 [2] † K					.58					T.										T.									T.	.40		0.98
Williamstown [2] L					.27					.08																				.28		0.63
Woodbury, Lock No. 4 [2] G				.12																										.56		0.68
Eastern Division																																
Annville [2] C				.02	.31					.65				.01						.35	.05								.20	.13		1.75
Ashland [2] O					.42					.28							T				.47									.90		2.07
Berea K				.33										T.						.52									.44	.34		1.63
College Hill, Lock No. 11 [2] K					.51					T.					.06						.10									.90		1.57
Cumberland C				.03																	.47											0.50
Cynthiana [2] L					T.												T.			T.										.51		0 51
Falmouth [2] L			.18	T.	.76					.15	T						T													.12		1.20
Farmers [2] L				.14															T.	.04										.72		0.90
Flemingsburg [2] L					.10					.03							.94			.48										.26		1.79
Ford, Lock No. 10 [2] † K					.60										T.				T.	.06										.47		1.13
Grayson [2] O					.15															.40										1.06		1.61
Greenup, Dam 30 [2] O					.31					.14					T.		.06			.43					T.					1.50		2.44
Hazard [2] K					1.55															.35	.90									.16		2.96
Heidelberg, Lock No. 14 [2] K			.12		.11										.13					.62	.02									.67		1.67
Jackson [2]					.72															1.68	.18									.22		2.80
Jenkins [2] B			.70	.05	.25															.05	.75									T.		1.80
Louisa [2] B					.27																.67									.52		1.46
Maysville, Dam 33 [2] O					.06					.18	.06				.50		3.27				.18									.84		5.09
Middlesboro C																																
Mount Sterling L				.20										.20			.20												.60	.30		1.50
Onelda [2] † K											.80																			.51		1.31
Oneonta Dam 35 [2] O				T.	.32					.05							.05								T.					.51		0.93
Paintsville [2] B					.31															1.24										.27		1.82
Pikeville B					.60						.34									.49	.02									.25		1.70
Pippapass K				.35						.34										1.30	.09									1.05		3.13
Quicksand [2] K					.80																1.05									.47		2 32
Ravenna, Lock No. 12 [2] K					.41										.07						1.67									.78		2.93
Richmond [2] K				.05																.20									.70	.60		1.55
Valley View, Lock No. 6 [2] K			.98		.04															.99										.61		1.72
Vanceburg, Dam No. 39 [2] O					.50					.14	.04				.05		2.09			.26										.48		3.56
Williamsburg [2] C															.08				.62	.29										.12		1.11
Willow, Lock No. 13 [2] K					.30										.06					1.15										.83		2.34
Winchester K					.32															.11										.63		1.06

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1] First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2] Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3] Precipitation measured with recording gage. *Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for September, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	92	94	94	95	91	95	101	103	102	91	86	98	101	102	96	96	90	96	87	86	85	84	91	92	92	91	92	96	82	68	..	92.0
	Minimum	59	59	65	72	55	55	64	69	72	69	41	51	61	63	67	54	65	59	59	54	48	42	43	49	61	60	64	61	67	49	..	58.9
Calhoun	Maximum	95	95	95	95	92	97	100	103	102	92	87	100	102	104	99	98	89	98	90	88	85	86	93	93	93	92	93	97	87	68	..	93.3
	Minimum	62	62	62	62	59	58	63	69	72	70	48	52	62	66	69	68	67	58	59	50	52	45	45	49	61	61	60	58	67	49	..	59.5
Earlington	Maximum	93	92	94	93	90	94	98	100	100	98	88	98	100	100	98	95	92	86	86	85	84	83	90	91	91	90	90	95	90	68	..	91.7
	Minimum	61	64	70	61	57	60	64	75	76	70	47	58	66	68	67	68	66	60	59	56	50	44	45	53	62	64	66	66	64	53	..	61.3
Greenville	Maximum	94	93	95	95	91	96	99	103	102	91	89	98	101	101	97	96	88	89	89	84	85	85	92	91	93	91	92	97	88	68	..	92.4
	Minimum	58	60	63	72	54	54	67	69	72	68	44	48	64	62	67	64	63	57	57	52	47	42	43	53	60	60	63	60	64	47	..	58.5
Henderson	Maximum	96	95	92	92	90	95	99	104	102	89	83	99	103	102	101	99	88	84	88	87	84	87	89	92	93	92	89	96	82	67	..	92.0
	Minimum	66	65	69	65	55	56	69	72	69	65	44	55	68	69	67	70	64	55	53	46	52	41	43	50	66	56	55	56	58	47	..	58.7
Hopkinsville	Maximum	94	95	96	97	94	96	98	102	102	94	92	99	104	104	94	96	92	88	90	87	87	85	91	93	91	91	93	97	79	66	..	92.9
	Minimum	59	61	65	70	58	57	61	62	71	70	55	53	60	65	69	61	65	61	64	56	52	49	43	50	54	59	60	61	66	53	..	59.8
Lovelaceville	Maximum	95	93	93	96	93	97	98	100	100	96	91	98	99	101	94	96	90	87	90	90	88	84	90	91	90	91	92	95	85	64	..	92.2
	Minimum	60	60	67	71	58	57	64	69	73	69	55	55	63	62	65	64	64	62	56	47	51	48	48	49	62	57	57	59	64	50	..	59.2
Mayfield	Maximum	94	94	91	95	89	97	98	100	101	93	91	98	101	100	92	96	89	87	90	87	86	85	91	92	91	91	94	95	86	69	..	92.1
	Minimum	64	..	64	77	62	61	69	72	72	73	59	64	70	69	72	67	68	62	61	56	55	53	53	60	63	61	64	64	66	51	..	*63.9
Murray	Maximum	92	91	92	95	92	96	98	101	101	94	97	98	101	102	91	94	91	88	86	85	87	84	91	91	90	89	92	95	75	70	..	91.6
	Minimum	65	66	70	72	64	62	68	72	76	74	67	61	68	71	73	67	68	62	63	59	56	51	52	60	63	64	65	64	66	46	..	64.6
Owensboro	Maximum	90	91	91	85	80	90	95	98	99	85	81	94	97	97	98	92	84	82	85	83	80	81	88	89	90	87	87	94	77	58	..	87.5
	Minimum	62	65	64	73	60	59	62	61	71	66	47	51	62	65	67	67	62	57	57	50	53	48	46	48	60	58	58	58	64	50	..	58.9
Paducah	Maximum	96	95	94	94	94	98	103	104	102	94	92	100	102	102	96	98	93	90	90	90	87	88	94	94	94	94	96	96	62	..	..	93.5
	Minimum	66	64	69	74	60	64	76	71	78	74	62	58	66	67	70	68	68	63	60	58	55	52	48	52	62	62	61	61	66	52	..	63.4
Paducah (near)	Maximum	94	95	92	95	93	99	101	103	102	97	93	100	102	104	98	98	92	89	92	91	88	87	93	93	92	93	94	96	88	70	..	94.1
	Minimum	63	65	70	78	56	58	68	71	71	69	53	58	68	64	66	68	65	63	55	46	51	41	44	51	66	61	59	61	61	50	..	60.6
Princeton	Maximum	96	98	94	99	95	100	102	105	104	94	91	100	103	105	96	98	89	84	90	83	87	85	92	92	92	92	94	96	76	53	..	92.8
	Minimum	62	67	70	77	63	60	69	71	71	72	54	60	69	65	72	69	66	60	60	52	54	49	49	56	63	64	62	64	67	49	..	62.9
Russellville§§	Maximum	89	85	87	95	84	89	92	95	100	87	83	96	95	90	88	96	83	83	71	78	78	83	82	83	89	88	93	93	82	60	..	86.6
	Minimum	67	62	64	71	57	58	63	68	70	71	48	52	60	63	70	63	65	58	61	55	48	43	46	56	56	62	62	62	67	58	..	60.2
Central Division.																																	
Anchorage	Maximum	87	90	92	89	83	87	96	89	99	86	80	94	98	99	95	94	87	83	81	83	80	81	89	90	91	86	88	94	82	68	..	88.4
	Minimum	62	66	68	69	54	55	62	65	64	55	48	48	60	65	66	66	65	55	56	50	50	41	43	49	63	55	59	58	65	47	..	58.0
Bowling Green	Maximum	96	95	96	94	92	95	98	103	103	94	85	98	100	103	96	96	92	89	89	86	86	85	92	92	92	91	92	95	89	73	..	92.6
	Minimum	64	65	68	72	64	60	66	70	76	74	57	54	66	68	73	67	65	62	67	61	55	53	51	57	59	63	66	66	70	62	..	64.0
Danville	Maximum	91	91	92	88	85	89	95	98	98	89	80	95	98	99	92	94	86	83	76	81	79	79	87	90	88	89	91	92	89	70	..	88.5
	Minimum	58	60	64	70	51	53	63	72	67	70	48	48	62	65	69	60	67	54	64	56	50	45	46	57	61	63	61	62	66	48	..	59.3
Dix Dam	Maximum	94	94	94	87	85	90	97	100	99	94	83	96	99	102	95	96	95	84	81	83	81	82	89	90	89	89	91	93	86	68	..	90.2
	Minimum	61	62	64	73	58	55	61	72	70	73	49	50	61	68	70	61	69	56	65	60	52	45	45	52	64	60	61	65	68	51	..	60.7
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	56	58	58	68	54	49	52	64	63	69	48	48	56	63	65	54	60	56	60	59	51	58	51	49	51	55	51	58	56	49	..	56.5
Frankfort	Maximum	92	95	94	90	86	92	99	101	102	89	81	97	101	103	95	96	89	83	80	85	82	81	90	91	90	87	92	96	87	70	..	90.5
	Minimum	59	59	60	73	54	50	57	68	66	69	45	45	58	64	66	63	67	55	58	59	50	41	41	46	62	56	56	56	66	49	..	57.3
Glasgow	Maximum	94	92	92	88	92	93	97	99	98	96	98	97	99	99	92	92	88	85	86	85	82	90	89	89	89	91	95	90	70	..	..	91.5
	Minimum	59	61	66	68	56	55	65	69	74	72	47	47	62	62	67	61	68	58	64	63	49	44	46	54	58	59	64	66	65	52	..	59.5
Greensburg	Maximum	96	97	95	89	90	95	99	102	102	94	86	97	102	100	95	97	90	82	82	85	85	85	91	91	93	84	92	96	87	69	..	91.3
	Minimum	56	58	59	67	54	51	55	61	70	68	44	43	55	60	66	56	60	54	66	55	47	40	40	47	52	55	56	58	63	40	..	55.8
Irvington	Maximum	92	98	93	90	85	91	96	98	99	89	82	94	97	98	96	93	85	81	86	82	79	79	87	89	90	89	88	94	79	69	..	88.8
	Minimum	65	64	69	74	62	58	67	72	69	72	49	52	66	67	70	71	68	56	62	54	55	48	58	53	63	68	66	62	69	48	..	62.4
Leitchfield	Maximum	95	95	95	93	88	93	99	102	101	91	87	98	100	103	95	97	87	84	83	84	82	84	92	91	91	91	93	95	84	70	..	91.4
	Minimum	60	63	65	70	55	55	63	68	75	69	51	53	63	67	71	63	66	57	65	55	54	45	48	54	60	63	64	64	70	48	..	61.2
Lexington	Maximum	95	94	94	89	83	91	97	101	101	89	81	97	99	100	95	95	85	85	71	80	79	81	90	91	90	90	91	94	87	64	..	89.3
	Minimum	63	64	65	68	57	55	64	71	67	60	52	52	66	69	70	64	59	52	59	56	53	46	49	57	60	63	62	64	64	47	..	59.8
Louisville	Maximum	90	92	91	90	82	90	97	99	99	84	80	94	97	98	95	92	85	80	79	80	76	80	88	89	89	82	87	93	78	66	..	87.4
	Minimum	66	67	70	69	63	62	71	75	73	67	56	56	70	73	73	73	66	58	61	58	58	55	53	57	61	59	63	63	66	48	..	63.9
Do. Bowman Field	Maximum	90	92	91	83	80	87	97	99	99	85	81	95	98	99	96	93	85	80	80	82	78	81	89	88	90	84	87	95	80	66	..	88.2
	Minimum	63	63	68	65	58	57	65	70	68	68	47	50	66	67	69	68	65	58	58	51	53	47	45	53	64	60	60	60	66	49	..	60.0
Mammoth Cave	Maximum	94	91	93	93	87	92	97	100	100	93	85	95	98	99	94	95	87	85	78	83	82	83	90	90	90	89	92	92	82	65	..	89.8
	Minimum	56	57	63	67	54	52	62	67	71	68	44	43	60	60	67	60	61	54	59	55	48	40	42	52	61	62	61	60	64	46	..	57.1
St. John	Maximum	95	95	95	95	87	92	99	103	103	98	85	98	93	100	96	97	92	83	80	82	80	82	89	89	90	88	90	91	90	71	..	90.9
	Minimum	61	61	64	69	57	58	57	67	66	67	52	51	59	62	67	62	62	55	61	51	55	49	48	51	59	59	61	60	67	58	..	59.2
Shelbyville	Maximum	92	94	94	90	84	91	99	100	100	91	82	97	99	100	96	95	88	81	75	82	79	82	89	90	90	85	90	95	85	72	..	89.6
	Minimum	61	60	63	68	56	52	60	65	65	65	47	49	61	66	67	65	65	62	59	56	52	45	47	53	60	57	58	58	65	47	..	58.1
Smith's Grove	Maximum	95	93	94	94	89	94	97	102	101	93	86	96	100	101	95	95	91	88	78	85	85	83	90	90	90	90	91	95	84	69	..	91.1
	Minimum	60	61	62	72	60	58	62	67	68	72	51	50	60	65	70	68	66	61	65	56	50	50	50	54	61	61	61	65	69	50	..	61.0
Stearns	Maximum	90	89	92	85	86	90	95	96	98	93	84	93	97	98	94	93	89	83	88	79	77	85	86	87	86	88	90	86	86	70	..	87.7
	Minimum	66	64	69	72	62	60	64	69	72	69	52	54	64	65	68	68	68	58	58	56	50	51	50	56	58	63	63	63	68	59	..	63.0
Taylorsville	Maximum	90	91	90	89	82	89	95	98	99	85	82	93	97	98	93	93	82	82	76	81	78	80	88	90	89	89	90	94	85	69	..	88.2
	Minimum	60	59	60	58	54	51	54	65	65	64	43	44	56	62	66	64	61	55	58	55	47	46	39	44	56	54	55	56	63	48	..	55.3
Williamstown	Maximum	90	94	93	88	80	86	95	100	100	95	80	94	97	100	98	96	84	78	85	79	76	78	87	90	89	80	88	93	87	74	..	88.8
	Minimum	63	63	66	72	60	54	60	72	68	68	50	52	68	72	70	69	68	52	59	58	54	48	52	57	65	56	57	59	69	48	..	61.0
Eastern Division.																																	
Annville	Maximum	90	90	90	87	84	87	..	95	97	88	..	91	95	95	92	92	85	84	75	77	78	78	85	87	86	89	88	90	88	72	..	†87.0
	Minimum	55	55	55	61	52	47	..	52	62	64	42	44	55	60	62	53	59	55	57	57	50	43	40	45	46	52	56	54	60	51	..	*58.2
Ashland	Maximum	92	96	94	92	83	85	96	100	99	88	80	94	97	100	97	99	85	83	77	75	77	80	86	88	90	81	90	91	90	77	..	88.7
	Minimum	59	60	60	56	55	49	57	66	69	69	48	47	62	66	66	51	67	55	58	60	57	46	49	49	57	59	58	59	65	54	..	57.9
Berea	Maximum	90	90	92	86	85	88	93	97	97	93	92	90	93	96	91	92	91	83	79	77	77	77	84	86	85	86	88	90	88	69	..	87.5
	Minimum	62	66	67	68	65	52	65	70	69	71	47	48	66	66	70	64	67	52	59	60	52	46	48	61	62	65	64	64	65	50	..	61.0
Cumberland	Maximum	88	88	87	85	91	90	93	94	97	91	85	90	94	93	90	92	92	90	70	73	76	76	86	85	87	87	89	88	89	85	..	87.4
	Minimum	55	57	55	49	58	55	58	75	60	61	49	44	54	58	50	54	54	52	56	55	51	60	46	45	45	46	58	54	56	45	..	53.5
Farmers	Maximum	91	89	94	83	85	88	96	96	99	84	84	95	96	85	95	96	81	84	84	78	76	74	85	86	86	85	90	89	89	68	..	86.9
	Minimum	58	59	59	63	56	47	54	65	64	67	44	44	59	64	66	53	65	52	58	51	55	47	41	40	46	52	51	52	63	53	..	55.7
Heidelberg	Maximum	90	91	93	88	84	86	94	96	99	89	84	94	96	96	92	95	82	82	75	78	77	80	84	89	89	87	90	91	89	71	..	87.7
	Minimum	59	59	59	61	57	51	55	60	64	66	50	45	56	63	66	56	61	52	62	62	55	49	44	49	53	55	58	57	62	62	..	57.3
Maysville	Maximum	89	93	93	90	81	83	97	98	97	93	79	94	97	94	90	95	81	78	74	76	76	75	85	89	88	76	87	91	83	68	..	86.3
	Minimum	62	66	64	68	55	52	59	66	67	68	46	51	62	67	69	60	66	55	60	63	53	43	47	52	63	59	56	58	67	53	..	59.2
Middlesboro	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Maximum	91	91	92	86	82	86	84	97	98	89	80	93	98	99	94	95	84	85	77	72	66	73	82	89	88	89	90	90	86	72	..	86.6
	Minimum	60	62	62	68	56	53	61	68	66	70	48	48	67	67	68	61	68	54	62	60	51	45	44	54	60	53	59	61	63	52	..	59.4
Pikeville	Maximum	91	92	92	88	86	86	96	98	100	92	83	93	91	96	95	95	84	84	84	66	72	75	80	86	89	89	91	92	92	78	..	88.0
	Minimum	62	62	64	63	64	57	56	62	65	68	52	50	58	64	61	58	60	58	59	60	59	58	49	52	52	54	59	61	65	62	..	58.8
Pippapass	Maximum	88	82	90	89	81	87	95	95	94	79	81	90	91	88	90	89	91	90	88	73	80	78	89	90	86	88	85	87	89	91	83	86.6
	Minimum	56	57	58	61	58	51	55	61	64	50	48	47	49	46	48	52	52	56	60	58	61	51	55	54	52	59	53	62	68	56	..	55.8
Quicksand	Maximum	93	92	95	88	85	88	96	97	100	90	86	95	98	99	96	97	87	83	77	80	78	82	87	89	88	89	90	93	93	77	..	89.6
	Minimum	59	59	58	60	58	51	54	60	62	64	49	46	55	63	65	55	59	51	57	58	54	50	47	49	50	52	57	56	62	53	..	55.8
Richmond	Maximum	90	92	92	86	83	88	95	98	100	90	85	94	100	100	94	95	84	85	70	82	82	80	88	88	90	92	90	92	84	75	..	88.7
	Minimum	58	60	70	72	64	62	70	73	74	74	57	60	72	73	72	68	68	57	68	60	57	50	52	62	64	66	66	68	70	68	..	65.7
Williamsburg	Maximum	89	90	95	89	92	94	98	99	100	90	96	95	100	100	95	96	92	89	78	79	84	81	83	88	90	91	90	92	69	77	..	89.8
	Minimum	53	56	59	50	56	56	60	59	70	52	54	49	57	59	65	56	58	56	58	58	52	53	54	49	49	53	52	50	48	43	..	54.8
Winchester	Maximum	90	90	90	87	81	86	94	97	98	87	77	93	97	100	92	96	85	84	68	80	78	80	86	88	87	89	90	91	87	69	..	87.2
	Minimum	62	64	65	70	58	54	64	68	67	70	50	51	67	69	68	63	66	51	65	58	55	45	48	54	61	61	58	64	69	60	..	60.5

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
*, †, ‡ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville 10-28-39 1100

51.05
N K2
99
10.10

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., OCTOBER, 1939 No. 10

GENERAL SUMMARY.

Dry weather until near the end, broken only by scattered showers, favored the curing of late tobacco and the thorough drying of corn. The gathering of corn advanced much more rapidly than usual, for the grain soon became so dry that it could be cribbed without fear of damage from contained sap. Fall seeding, especially of wheat, suffered increasing interference on account of the drying and hardening of the soil. Breaking of land for wheat practically ceased after the first week, therefore most of the sowing was done on corn and tobacco stubble with the surface soil almost devoid of moisture. During the very warm week preceding the 11th, the moisture received late in the preceding month was largely lost. These rains had been sufficient in places to cause germination but not generally throughout the State. Also in many places, particularly on dry uplands, they brought up the grain but did not supply enough water content to the soil to sustain growth through the hot spell. For this reason much grain, especially early sown wheat and barley, came up feebly and died as the moisture disappeared under the influence of the mid-summer type of heat. Thin and spotted stands resulted in those areas. Where plants survived they made little or no growth. Seeding extended southward toward the end of the month, with most of the grain merely lying in the dry soil. There was but little germination in the two weeks that preceded the rains near the end. As the month closed grain that had lived through the dry spell was improving, but the abnormally low temperatures were unfavorable for growth. Water shortage developed in the hill and upland sections. Pastures dried up early in the month, so that practically complete feeding was required. The rains of the last week relieved the water shortage, enabled farmers to finish seeding, and made possible a beginning of tobacco stripping. Killing frosts occurred rather generally on the 14th and 15th, but without damage. Late potatoes made some growth in the first week, but none of consequence thereafter.

TEMPERATURE.

The first three and the last four days were relatively cold, with daily deficiencies of 5° to 17°. Weather colder than normal also prevailed from the 12th to 17th. In the periods 4-10th and 18-27th temperatures were unseasonably high, with the excess on most days from 10° to 20°. Maxima in these warm spells were often above 80° and at times in the first of the periods above 90°. Freezing or somewhat lower temperatures occurred rather generally on the 10th. Extremes for the State were 95° at Frankfort on the 8th and 23° at Mammoth Cave on the 23d.

PRECIPITATION.

The average precipitation was considerably less than the normal for this month. Showers occurred locally on the 1st, 6-7th, and 10-11th. There were a few fairly good rains on the 1st and 7th, otherwise the precipitation in the first three weeks was generally light. Most of the rain fell in the period 25-28th, when amounts ranged from 1.0 to 2.0 inches in nearly all districts. The rain was rather well distributed over the State. Some western counties and districts in the southeast and extreme north received from 1.0 to 2.0 inches. In other parts of the State monthly amounts ranged from 2.0 to 4.0 inches. The extremes were 0.89 inch at Middlesboro and 4.37 inches at Mammoth Cave. Thunderstorms were reported on the following dates: 5, 6, 7, 25, 27.

MISCELLANEOUS.

Oct. 24.---By this date brush fires had become serious in many districts. In the mountain region they destroyed considerable timber. One in Graves County caused damage to buildings and other farm property estimated at $4,000.

Rivers---Pool stages prevailed in all streams throughout the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 6.30 a. m.	12.30 p. m.	6.30 p. m.	Percentage of sunshine.
Cairo ..... Ill.	30.07	30.52	14	29.74	27	8.4	24	nw.	27	80	47	54	81
Cincinnati ..... Ohio	30.08	30.49	15	29.70	22	7.3	33	sw.	7	78	42	52	76
Evansville..... Ind.	30.07	30.51	14	29.73	27	9.2	28	n.	27	73	44	48	76
Louisville ..... Ky.	30.07	30.45	14	29.72	22	9.1	31	sw.	26	79	43	54	77

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	52.0	89	23	2.40	....	..	..	..	..
1890	55.7	87	23	2.94	....	..	..	..	..
1891	54.8	92	21	0.78	....	..	..	..	..
1892	57.3	97	19	0.51	....	..	..	..	..
1893	56.4	90	19	4.00	....	..	..	..	..
1894	58.6	92	25	1.36	....	5	..	..	..
1895	52.2	89	14	1.24	....	4	21	5	5
1896	55.8	90	25	1.71	....	5	18	7	6
1897	63.2	96	26	1.10	0.0	4	25	3	3
1898	57.1	93	21	4.19	T.	10	12	9	10
1899	61.3	93	26	2.42	0.0	5	18	6	7
1900	64.5	94	29	2.29	0.0	5	16	8	7
1901	58.1	93	25	1.57	0.0	4	22	6	3
1902	60.1	91	25	2.34	T.	5	18	7	6
1903	57.7	96	19	2.22	T.	5	19	6	6
1904	57.2	93	20	0.52	0.0	2	21	6	4
1905	57.0	90	25	4.95	0.0	9	14	5	12
1906	56.9	91	20	1.51	T.	7	15	5	11
1907	55.5	93	20	2.97	T.	6	18	5	8
1908	57.1	92	20	0.71	0.0	3	20	6	5
1909	55.2	94	18	2.11	T.	6	19	5	7
1910	61.4	96	17	4.45	0.1	6	20	4	7
1911	59.9	94	27	3.71	0.0	10	13	6	12
1912	59.5	92	25	1.42	0.0	4	18	7	6
1913	56.9	97	23	3.55	T.	9	14	5	12
1914	59.7	91	22	5.10	0.0	8	13	8	10
1915	60.6	90	27	3.40	0.0	6	18	7	6
1916	57.6	97	24	2.59	T.	6	20	5	6
1917	51.1	90	20	3.18	0.1	7	14	8	9
1918	62.3	91	32	3.81	0.0	10	13	7	11
1919	65.6	98	35	7.99	0.0	15	8	7	16
1920	61.0	93	24	1.64	0.0	4	21	5	5
1921	57.1	90	24	2.31	0.0	6	20	6	5
1922	60.2	96	25	2.28	0.0	6	20	4	7
1923	56.5	89	19	1.68	0.2	5	18	5	8
1924	61.1	93	24	0.27	0.0	1	23	5	3
1925	52.9	88	13	7.09	3.2	11	6	7	18
1926	59 3	94	25	5.96	T.	11	12	8	11
1927	60.7	92	27	2.61	0.0	4	20	6	5
1928	61.6	95	21	3.93	0.0	8	17	7	7
1929	56.4	85	25	3.65	T	8	14	5	12
1930	55.8	94	16	1.33	T.	6	16	7	8
1931	62.0	93	28	3.01	0.0	8	17	6	8
1932	56.0	85	24	3.31	0.0	7	17	5	9
1933	57.4	88	23	2.05	0.0	6	19	5	7
1934	59.5	88	22	0.88	0.0	4	21	5	5
1935	59.5	91	22	2.51	0.0	8	15	7	9
1936	58.5	88	24	3.47	0.0	9	10	9	12
1937	55.7	93	17	4.27	T.	12	13	6	12
1938	60 1	95	24	0.48	0 0	2	24	4	3
1939	60.9	95	23	2 11	0 0	6	20	6	5
Period	58 2	98	13	2.70	0.1	6	17	6	8

†51-year averages.

Climatological Data for October, 1939.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Western Division.																					
Beaver Dam	Ohio	441	27	°61.2	+ 2.5	93[a]	9	25[a]	29	49[a]	1.34	−1.46	0.70	0	6	19	5	7	sw.	Eldred G. Young.
Calhoun	McLean	437	35	62.8	+ 2.9	92	7†	28	29	47	1.70	−1.89	0.93	0	7	20	3	8	.....	R. C. Bennett.
Earlington	Hopkins	420	45	63.3	+ 1.7	91	7†	28	15†	44	2.59	−0.71	1.07	0	8	23	2	6	sw.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	.....	.....	.....	.....	.....	.....	.....	1.58	−1.32	0.62	0	7	.....	.....	.....	.....	Lockmaster.
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	.....	.....	1.25	.....	0.63	0	7	.....	.....	.....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	61.9	+ 2.6	92	8	25	29	46	2.26	−1.46	0.43	0	8	22	6	3	s.	C. R. Lovell.
Hartford (near)	Ohio	640	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. Carson, Sr.
Henderson	Henderson	382	17	62.2	.....	92	6†	26	15	49	2.64	−0.54	1.30	0	6	19	7	5	w.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	61.8	+ 1.0	94	7†	28	29	48	1.97	−1.46	0.90	0	8	24	6	1	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	61.6	+ 1.6	90	7	26	29	47	1.60	−1.92	0.65	0	4	25	3	3	s.	Blaine Malone.
Mayfield	Graves	364	30	64.6	+ 4.1	92	7	33	15	37	1.95	−1.31	0.84	0	6	23	6	2	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	63.8	+ 3.8	91	8	32	15	41	1.58	−1.88	0.70	0	4	7	7	17	s.	Pat W. Weir.
Owensboro	Daviess	420	42	60.6	+ 1.9	89	7†	28	29	43	2.14	−1.31	1.25	0	8	25	1	5	s.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	.....	.....	.....	.....	.....	.....	.....	2.22	−0.71	1.35	0	7	.....	.....	.....	.....	Lockmaster.
Paducah	McCracken	341	19	63.2	+ 1.9	92	7†	30	29†	41	1.39	−1.93	0.47	0	7	16	8	7	.....	U. S. Engineers.
Paducah [near]	McCracken	390	19	.....	.....	90[1]	6	29[b]	15	47[1]	0.92	−2.93	0.44	0	3	.....	.....	.....	.....	Joe Lagore.
Princeton	Caldwell	529	32	63.8	+ 4.6	94	8	28	29	46	1.17	−2.00	0.69	0	4	23	3	5	s	S. J. Lowry.
Rumsey, Lock 2 ‡	McLean	384	22	.....	.....	.....	.....	.....	.....	.....	1.56	−1.64	0.81	0	7	.....	.....	.....	.....	Lockmaster.
Russellville	Logan	590	26	.....	.....	88[c]	6	27[c]	29	42[c]	2.23	−0.65	0.75	0	8	.....	.....	.....	.....	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	.....	.....	.....	.....	.....	.....	.....	2.20	−0.74	0.74	0	8	.....	.....	.....	.....	Lockmaster.
Central Division.																					
Addison, Dam 45	Breckinridge	352	11	.....	.....	.....	.....	.....	.....	.....	2.30	−0.77	1.56	0	6	.....	.....	.....	.....	Lockmaster.
Anchorage	Jefferson	700	39	59.8	+ 3.1	91	8	25	29	45	1.39	−1.59	0.91	0	3	24	0	7	sw.	C. E. Barret.
Bowling Green	Warren	500	43	63.2	+ 3.3	90	8	32	29	38	2.40	−0.81	1.03	0	7	19	3	9	s.	Mrs. Lillie G. Causey.
Brownsville, Lock 6	Edmonson	410	22	.....	.....	.....	.....	.....	.....	.....	2.41	−0.63	1.04	0	7	.....	.....	.....	.....	Lockmaster.
Burnside	Pulaski	705	48	.....	.....	*	.....	.....	.....	.....	3.19	−0.99	1.45	0	6	.....	.....	.....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	.....	.....	.....	.....	.....	.....	.....	1.93	−0.95	0.94	0	3	.....	.....	.....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	.....	.....	.....	.....	.....	.....	.....	1.43	−1.10	0.44	0	6	.....	.....	.....	.....	Lockmaster.
Danville	Boyle	955	15	61.6	.....	89	8†	27	29	44	2.56	+0.61	0.88	0	6	23	4	4	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	61.8	+ 3.0	90	8†	30	29	41	2.13	−0.85	0.85	0	5	25	1	5	nw.	Kentucky Utilities Co.
Hadsville	Wayne	622	.....	.....	.....	.....	.....	.....	.....	.....	2.67	.....	1.05	0	6	.....	.....	.....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	.....	.....	.....	.....	26	25	.....	2.20	−0.96	0.80	0	5	17	10	4	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	60.4	+ 3.0	95	8	27	15†	50	2.58	−0.13	1.43	0	6	21	5	5	sw.	Lockmaster.
Gest, Lock 3	Henry	490	29	.....	.....	.....	.....	.....	.....	.....	1.92	−0.99	1.10	0	5	.....	.....	.....	.....	Lockmaster.
Glasgow	Barren	760	12	62.8	+ 4.2	92	8	28	29	46	2.20	−0.51	0.67	0	8	17	14	0	s.	L. E. Turner.
Grant, Dam 38	Boone	506	14	.....	.....	.....	.....	.....	.....	.....	1.34	−1.11	0.64	0	6	.....	.....	.....	.....	Lockmaster.
Greensburg	Green	581	46	59.8	+ 2.7	91	9	24	15†	49	2.10	−1.29	0.62	0	7	10	2	19	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	.....	.....	.....	.....	.....	.....	.....	2.91	+0.06	1.52	0	5	.....	.....	.....	.....	Lockmaster.
Irvington	Breckinridge	646	41	61.0	+ 3.8	89	8†	29	16	43	2.45	−0.58	1.80	0	7	21	2	8	s.	L. O. Stiles.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	.....	.....	1.26	.....	0 57	0	6	23	4	4	sw	J. C. Ogg.
Lancaster	Garrard	1032	18	.....	.....	.....	.....	.....	.....	.....	2.33	−0.99	0.85	0	4	.....	.....	.....	.....	Kentucky Utilities Co.
Leitchfield	Grayson	635	43	61.9	+ 3.4	92	8	27	29	43	2.33	−1.13	0.75	0	8	19	7	5	sw,	H. H. Willis.
Lexington	Fayette	989	55	59.9	+ 2.5	91	9	29	29	33	2.58	−0.01	1.70	0	5	18	8	5	.....	U. S. Weather Bureau.
LittleHickman, Lock 8	Jessamine	560	29	.....	.....	.....	.....	.....	.....	.....	2.58	−0.72	1.08	0	4	.....	.....	.....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	.....	.....	.....	.....	.....	.....	.....	2.23	−0 63	0.96	0	4	.....	.....	.....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	61.6	+ 2.3	89	8	35	29	34	1.38	−1.27	0.86	0	4	20	5	6	sw.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	60.0	.....	91	8	28	29	44	1.23	.....	0.78	0	5	.....	.....	.....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	58 4	.....	93	9	23	29	41	4.37	.....	2.77	0	8	21	4	6	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	.....	.....	1.59	.....	0.60	0	5	.....	.....	.....	.....	E. O. Cooper.
Munfordville	Hart	600	10	.....	.....	.....	.....	.....	.....	.....	1.29	−2.11	0.60	0	5	.....	.....	.....	.....	Chester Williams.
St. Joan	Hardin	777	43	62.8	+ 5.1	92	8	27	29	42	2.31	−0.96	0.66	0	6	18	4	9	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	.....	.....	.....	.....	.....	.....	.....	3.90	+1.12	1.68	0	6	.....	.....	.....	.....	Lockmaster.
Shelbyville	Shelby	825	46	60.0	+ 2.8	90	7†	28	29	42	2.79	−0.13	0.88	0	8	22	0	9	s.	Willis S. Ratts.
Shepherdsville	Bullitt	500	2	.....	.....	.....	.....	.....	.....	.....	3.07	.....	1.17	0	7	18	13	0	w.	C. W. Cuernsey.
Smith's Grove	Warren	607	1	61.8	.....	90	8	29	29	40	2.49	.....	0.85	0	8	.....	.....	.....	.....	Airway Station.
Stearns	McCreary	1400	3	60.4	.....	88	9	27	29	35	2.15	.....	0.97	0	9	.....	.....	.....	.....	Airway Station.
Taylorsville	Spencer	489	33	58.9	+ 2.6	91	8	24	15	41	3.20	−0.88	1.75	0	6	27	3	1	u.	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	.....	.....	.....	.....	.....	.....	.....	3.14	+0.16	1.80	0	5	.....	.....	.....	.....	Lockmaster.
Williamstown	Grant	943	36	60.6	+ 4.7	90	8†	26	31	37	2.01	−0.98	0.83	0	7	21	5	5	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4	Butler	504	22	.....	.....	.....	.....	.....	.....	.....	1.95	−1.18	0.80	0	8	.....	.....	.....	.....	Lockmaster.
Eastern Division.																					
Annville	Jackson	.....	8	°57.9	.....	89[c]	8†	24	15†	49[c]	1.80	.....	0.75	0	6	15	12	4	sw.	W. A. Worthington.
Ashland	Boyd	534	22	59.7	+ 1.9	91	8†	28	15	44	2.91	+0.16	1.62	0	7	16	8	7	w.	Lockmaster.
Berea	Madison	1070	35	61.2	+ 2.6	87	9	28	29	39	4.06	+0.98	1.37	0	7	18	6	7	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	.....	.....	.....	.....	.....	.....	.....	2.64	−0.41	1.32	0	5	.....	.....	.....	.....	Lockmaster.
Cumberland	Harlan	1440	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Olon Cook.
Cynthiana	Harrison	684	21	.....	.....	.....	.....	.....	.....	.....	2.09	−0.48	1.50	0	2	.....	.....	.....	.....	S. M Hill.
Falmouth	Pendleton	600	50	.....	.....	.....	.....	.....	.....	.....	1.58	−1 03	0.75	0	6	.....	.....	.....	.....	Jessie Oldham.
Farmers	Rowan	668	32	56.2	− 0.3	87	8†	25	15†	39	2.97	+0.06	1.77	0	5	15	9	7	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	.....	.....	.....	.....	.....	.....	.....	2.52	−0.79	1.45	0	5	.....	.....	.....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	23	.....	.....	.....	.....	.....	.....	.....	2.09	−0.50	1.24	0	5	.....	.....	.....	.....	Lockmaster.
Grayson	Carter	589	9	.....	.....	.....	.....	.....	.....	.....	2.23	−0.77	1.60	0	3	.....	.....	.....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	.....	.....	.....	.....	.....	.....	.....	2.64	+0.48	1.22	0	5	.....	.....	.....	.....	Lockmaster.
Hazard	Perry	869	15	.....	.....	.....	.....	.....	.....	.....	1 96	−1.08	0.60	0	5	.....	.....	.....	.....	Lockmaster.
Heidelberg, Lock 14	Lee	663	4	60.2	.....	91	8	27	16	45	2.81	−0.51	0.62	0	7	17	4	10	sw.	Jas. T. Goff.
Jackson	Breathitt	776	15	.....	.....	.....	.....	.....	.....	.....	2.31	.....	0.70	0	5	.....	.....	.....	.....	R. J. Howard.
Jenkins	Letcher	1566	13	.....	.....	.....	.....	.....	.....	.....	1.36	−2.15	0.48	0	5	.....	.....	.....	.....	Zeb Heston.
Louisa	Lawrence	584	36	.....	.....	.....	.....	.....	.....	.....	2.51	−0.36	1.52	0	4	.....	.....	.....	.....	Lockmaster.
Maysville, Dam 33	Mason	524	41	59.4	+ 2.0	90	8	29	15†	42	1.63	−1.03	0.80	0	5	16	12	3	s.	Matthew Woodson
Middlesboro	Bell	1128	40	[b]59.0	+ 1.7	85[b]	10†	27[b]	29	42[b]	0.89	−2.39	0.36	0	4	.....	.....	.....	.....	W. R McKee.
Mount Sterling	Montgomery	930	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Garret Combs.
Oneida	Clay	800	2	.....	.....	.....	.....	.....	.....	.....	2.02	.....	0.86	0	4	.....	.....	.....	.....	Lockmaster.
Oneonta, Dam 35	Campbell	497	17	.....	.....	.....	.....	.....	.....	.....	1.31	−1.11	0.52	0	6	.....	.....	.....	.....	A. L. Donta.
Paintsville	Johnson	620	5	.....	.....	.....	.....	.....	.....	.....	1.62	.....	0.73	0	3	.....	.....	.....	.....	U. S Weather Bureau.
Pikeville	Pike	636	3	61.4	.....	90	10	29	16	40	1.98	−1.08	0.77	0	7	.....	.....	.....	.....	Caney Run Com. Cen.
Pippapass	Knott	1035	5	.....	.....	.....	.....	.....	.....	.....	3.22	.....	1.83	0	4	17	11	3	w.	R. W. Jones.
Quicksand	Breathitt	732	13	62.1	+ 4.5	92	9	25	15†	52	1.88	−1.59	0.66	0	4	.....	.....	.....	.....	Lockmaster.
Ravenna, Lock 12	Estill	631	20	.....	.....	.....	.....	.....	.....	.....	2.89	−0.56	0.74	0	6	.....	.....	.....	.....	J. W. Crooke.
Richmond	Madison	926	42	63.3	+ 4.3	90	7†	30	29	30	2.05	−0.92	1.00	0	6	17	10	4	.....	Lockmaster.
Valley View, Lock 9	Madison	571	26	.....	.....	.....	.....	.....	.....	.....	1.88	−1 12	1.06	0	5	.....	.....	.....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	.....	.....	.....	.....	.....	.....	.....	2.22	−0 78	1.17	0	5	.....	.....	.....	.....	Wadely West.
Williamsburg	Whitley	939	42	61.0	+ 1.5	91	9	27	30†	52	1.24	−1.60	0.49	0	4	20	6	5	.....	Lockmaster.
Willow, Lock 13	Lewis	646	19	.....	.....	.....	.....	.....	.....	.....	2 01	−1.01	0.95	0	4	.....	.....	.....	.....	Airway Station.
Winchester	Clark	964	....	60.3	....	90	8	28	29	40	2.65	.....	1.70	0	6	.....	.....	.....	.....	
State averages and extremes		.....	.....	60.9	+ 2.7	95	8	23	29	52	2 09	−0.61	2.77	.....	6	20	6	5	.....	

[1] All temperature data are taken from self-registering thermometers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. ‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River

Reference letters, *, [b], *, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for October, 1939.

Stations	Day of month																													Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	31	
Western Division																														
Beaver Dam G.					.04					.13															.06	.19	.70	.22				1.34
Calhoun G.						T.	.14		.01																.14	.20	.92	.24		.04		1.70
Carlington [2] G.	.07					.11	.59			T.	.04														.02		.67	1.07		.02	T.	2.59
Fords Ferry Dam 50[2] O.	.11					T.	.03				.16															.11	.50	.62		.05	T.	1.58
Gilbertsville[2] T.	.04					.06					.03															.04	.65	.42		.03		1.25
Greenville G.						.25	.48			.26															.30	.26	.43	.30		.05		2.26
Hartford G.																																
Henderson O.							.31			.08															.50	.39	1.30			.06		2.64
Hopkinsville[2] O.	.10				.16						.05														.02	.41	.29	.90			.04	1.97
Lovelaceville M.										.65															.15	.25	.55					1.60
Mayfield M.					T.					.17															.04	.37	.84	.48		.05		1.95
Murray T.					T.					.22															T.	.43	.76	.28				1.68
Owensboro [2] O.	.04						.24			T.															.01	.11	.40	1.25		.02	.01	2.14
Owensboro, Dam 46 [2] O.	.06						.25				.01														T.	.09	.43	1.35		T	.03	2.22
Paducah [2] O.	.05					T.	T.			.25	.09														.07	.47	.44			.02		1.39
Paducah (near) [‡] O.																									.08	.40	.44					0.92
Princeton G.					.03																				.03	.40	.69					1.17
Ramsey, Lock No. 2 [2] G.	.04						.13				.02														.02	.12	.42	.81				1.56
Russellville [2] G.	.29	.29				.07									.15											.21	.44	.75			.08	2.23
Uniontown, Dam 49[2] O.	.11						.18				.15														.02	.40	.51	.74		.09		2.20
Central Division																														
Addison, Dam 45. [2] O.	.07						.37																		T	.11	.15	1.56			.04	2.30
Anchorage O.										T.															.29	.19	.91			T		1.39
Bowling Green [2] G.						.12	.30				.15														T.	.48	.28	1.03			.04	2.40
Bowling Green No. 2[2] G.	.27					.08	.48				.07															.17	.23	.92			T.	2.22
Brownsville, Lock No. 6[2] G.	.24					.07	1.04				.06															.15	.25	.60				2.41
Burnside[2] C.	.45						.22				.07															.09	1.45	.91				3.19
Carrollton Lock No. 1[2] K.																										.94	.13	.86					1.93
Cold Spring, Dam 36[2] O.	.11										.07														T.	.43	.34	.44			.04	1.43
Danville[2] K.	.51					T					.14															.69	.32	.88			.02	2.56
Dix Dam, Burgin K.					.02				.22																.74	.30	.85					2.13
Eadsville [2] K.	.45						.18				.03															.06	1.05	.90					2.67
Eubank C.	.48						.13				.46															.60	.53						2.20
Frankfort, Lock No. 4[2] K.	.18										.10										.06					.56	.31	1.43			T.	2.58
Gest, Lock No. 3 [2] K.	.21										.07															.34	.20	1.10					1.92
Glasgow G.	.32					.04	.29	T.			.28															.04	.46	.67			.10		2.20
Grant, Dam 38[2] O.	.05					T.																			.05	.35	.23	.64			.02	1.34
Greensburg [2] K.	.48					.11	.26																			.06	.58	.62			.05		2.10
High Bridge, Lock No. 7[2] K.	.48					T.					.15															.45	.31	1.52			T.		2.91
Irvington O.						.15	.02			.01															.34	.12	1.80			.01	T.	2.45
LaGrange O.	.03									.03	T.														.40		.22	.57	.01	T.		1.26
Lancaster [2] K.										.28															.85	.40	.80					2.33
Leitchfield [2] G.	.30					.02	.50				.06															.22	.42	.75			.06		2.33
Lexington [‡] K.					T.					.36															.12	.38	1.70			.02		2.58
Little Hickman, Lock No. 8 [2] K.	.58																									.74	.36	1.00					2.68
Lockport, Lock No. 2 [2] K.	.19										T.														T.	.68	.40	.96			T.		2.23
LOUISVILLE [1] [‡] O.										T.															.43	.21	.71			.03		1.38
Do. Bowman Field O.						.01				T.															.20	.23	.78			.01		1.23
Mammoth Cave[2] G.	.26					.07	2.77				.01															.25	.56	.62			.03		4.37
Monticello [2] C.	.51						.48	.06			.07														.03		.49					1.59
Munfordville [2] G.						T.	.02				.09															.08	.30	.60			T.		1.29
St. John [2] S.	.30					T.	.18				.30															.31	.66	.66					2.31
Salvisa, Lock No 6 [2] [†] K.	.40										.51															.81	.48	1.68			.02		3.90
Shelbyville[2] S.	.26									.08															.60	.15	.69	.88		.02	.11	2.79
Shepherdsville S.	.02					T.				.20															.43	.06	1.17	1.15		.04		3.07
Smith's Grove G.	.26					.05	.85				.09															.16	.39	.67			.02		2.49
Stearns C.		.02					.38	.12			.09	.01														.04	.07	.49			.03		2.15
Taylorsville O.						.15				.10															.80	.40	1.75					3.20
Tyrone, Lock No. 5 [2] [†] K.	.30				T.	T.					.34															.22	.48	1.80					3.14
Williamstown L.	.13									.07											.10				.54		.28	.83		.06		2.01
Woodbury, Lock No. 4[2] G.	.35					.01	.37				.03														T.	.29	.27	.60			.03		1.95
Eastern Division																														
Annville [2] C.	.40						.10																			.02	.52	.75		.01			1.80
Ashland [2] O.	.64										.41										.03					.10	.09	1.62			.02		2.91
Berea K.	.34	.89				.04	T.				.92															1.37	.37	.73		T.			4.6
College Hill, Lock No. 11[2] K.	.59										.12															.81	.30	1.32					2.74
Cumberland C.																																
Cynthiana [2] L.										T.																.59	T.	1.50		T.			2.09
Falmouth [2] L.	.11										.13											T.				.26	.30	.75			.03		1.58
Farmers [2] L.	.75										.24															.06		.15	1.77					2.97
Flemingsburg [2] L.	.39										.18															.20	.30	1.45					2.52
Ford, Lock No. 10 [2] [†] K.	.38					T.	T.				.10															.18	.21	1.24					2.09
Grayson [2] O.	.54										.09																	1.60					2.23
Greenup, Dam 30[2] O.	.58										.19															.55	.10	1.22					2.64
Hazard [2] K.	.50																									.36	.60	.45			.05		1.96
Heidelberg, Lock No. 14[2] K.	.48						.18	.01			.29															.62	.41	.62					2.61
Jackson [2] K.	.52										.16															.70	.85	.58					3.31
Jenkins [3] K.		.48								T.	.15															.25	.40			.08			1.36
Louisa [2] B.	.60										.14																.25	1.52					2.51
Maysville, Dam 33[2] O.	.26										T.															.36	.19	.80			.02		1.63
Middlesboro C.	.36						.18																			.05		.80					0.89
Mount Sterling L.																																
Oneida [2] [†] K.	.51																									.19	.86		.46				2.02
Oneonta Dam 35[2] O.	.12										.07														T.	.52	.26	.32			.02		1.31
Paintsville [2] B.	.63																										.26	.73					1.62
Pikeville B.	.63	T.					.02				.12															.12	.21	.77	T		.11		1.98
Pippapass K.																									1.83		1.10	.30			.09		3.32
Quicksand[2] K.							T.				.21															.66	.41	.60					1.88
Ravenna, Lock No. 12[2] K.	.50						.05				.54															.18	.33	.74			T		2.39
Richmond[2] K.					.05					.10															.40	.40	1.00			.10		2.05
Valley View, Lock No. 9[2] K.											.15															.35	.28	1.06			.04		1.88
Vanceburg, Dam No. 32 [2] O.	.26										.22															.31	.26	1.17					2.22
Williamsburg[2] K.	.08										.14															T.	.49	.23					4.74
Willow, Lock No. 13[2] K.											.42															.44	.20	.95					2.01
Winchester K.	.49						.02				.13															.08	.23	1.70					2.65

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. *Included in the next following measurement
T. Trace, or precipitation less than 0.01 inch. ‡Precipitation measured with recording gage. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House, Ky.; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for October, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	66	72	81	84	88	92	92	..	93	85	72	72	80	72	64	76	58	80	82	83	80	78	86	86	76	78	77	71	61	56	53	*76.3
	Minimum	40	38	36	44	56	61	64	..	62	61	53	43	31	34	30	28	38	38	51	40	60	50	36	59	66	63	70	37	25	35	37	*46.0
Calhoun	Maximum	68	80	82	85	82	91	92	92	91	92	72	80	71	65	77	70	79	82	85	82	82	87	86	75	78	75	72	62	58	54	54	78.6
	Minimum	39	38	40	45	55	59	64	64	59	63	53	45	35	35	30	30	41	39	47	41	69	39	39	57	66	64	70	37	28	41	34	47.0
Earlington	Maximum	68	72	80	84	81	89	91	91	91	86	71	70	78	75	68	78	70	79	81	84	79	77	85	85	77	77	76	73	64	58	52	76.8
	Minimum	39	35	34	48	62	64	66	69	69	71	62	46	36	36	28	30	41	40	62	46	62	58	41	62	70	68	72	42	28	39	37	49.8
Greenville	Maximum	62	74	88	85	83	90	91	92	90	87	70	72	80	75	65	76	70	85	90	84	81	79	86	85	78	76	75	72	62	55	53	77.8
	Minimum	39	36	37	42	52	60	62	65	64	60	51	43	32	34	29	29	39	39	51	48	59	50	38	61	62	64	69	35	25	36	36	46.5
Henderson	Maximum	66	75	83	84	80	92	92	91	88	77	75	71	76	64	68	79	70	80	88	84	82	80	87	84	78	77	79	69	61	58	55	77.0
	Minimum	35	33	38	48	58	62	64	65	65	57	43	44	34	33	26	31	43	36	55	49	58	51	38	56	68	67	67	36	28	41	32	47.3
Hopkinsville	Maximum	67	74	82	84	83	90	94	94	93	83	77	75	81	60	68	76	72	80	81	84	83	81	84	83	81	81	80	78	68	62	54	77.7
	Minimum	40	40	48	44	50	57	60	54	60	60	52	45	33	37	36	31	37	41	45	40	61	53	40	52	56	63	68	37	28	35	35	45.8
Lovelaceville	Maximum	66	72	82	84	80	89	90	90	89	84	71	72	78	71	67	75	68	80	81	83	83	87	80	80	80	82	76	81	66	60	52	77.1
	Minimum	35	34	39	46	60	61	64	66	63	63	42	44	35	35	31	29	38	42	46	41	50	47	40	54	63	68	70	35	26	37	29	46.2
Mayfield	Maximum	64	72	81	83	82	88	92	90	91	85	70	72	81	74	67	76	70	82	81	84	84	83	88	84	82	81	80	71	62	58	53	77.8
	Minimum	39	41	45	56	61	64	66	72	67	64	46	49	44	38	33	39	43	50	54	48	66	64	49	65	69	70	69	38	35	42	31	51.5
Murray	Maximum	62	70	82	83	80	88	90	91	90	82	68	70	80	80	66	75	70	82	81	82	81	84	88	87	80	76	77	69	62	56	52	76.9
	Minimum	40	41	45	53	59	64	66	64	64	60	50	43	39	39	32	39	43	47	52	51	50	48	51	65	69	69	69	38	32	42	35	50.6
Owensboro	Maximum	62	72	77	82	81	86	89	89	89	78	66	67	78	63	56	74	68	77	79	82	78	76	85	79	82	77	77	66	62	54	50	74.4
	Minimum	37	41	42	46	55	61	66	64	60	61	50	41	33	34	34	30	41	41	50	51	55	52	37	50	52	60	68	36	28	39	34	45.7
Paducah	Maximum	68	75	85	85	82	91	92	91	92	76	73	72	81	59	68	78	72	83	82	85	84	81	89	82	82	80	78	78	72	60	58	77.3
	Minimum	44	44	42	48	55	62	64	66	66	60	48	38	40	39	33	39	47	49	44	50	52	44	50	65	69	70	40	30	30	34	30	49.1
Paducah (near)	Maximum	66	75	82	84	81	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	38	38	39	52	61	63	..	..	..	..	..	..	..	..	..	29	32	40	42	55	45	54	51	42	65	67	69	70	38	30	41	36	.....
Princeton	Maximum	64	73	82	83	84	82	90	93	94	92	87	72	76	81	74	69	77	70	82	82	83	86	83	88	86	78	76	75	72	63	56	78.3
	Minimum	38	39	41	53	59	65	63	67	66	63	52	46	35	35	33	34	41	41	51	43	58	53	42	63	69	68	71	37	28	44	36	49.4
Russellville§§	Maximum	62	64	74	81	80	88	..	..	..	..	..	..	..	..	54	43	70	57	80	80	88	72	74	85	85	75	72	72	60	57	44	39	.....
	Minimum	40	36	40	47	55	59	64	..	..	..	..	..	..	33	31	32	41	41	44	45	62	55	41	44	64	64	67	38	27	32	36	.....
Central Division.																																	
Anchorage	Maximum	66	70	77	83	84	83	90	91	89	85	68	70	78	64	63	74	65	75	80	80	83	77	78	80	79	73	79	79	65	59	58	58	74.8
	Minimum	40	40	39	43	53	59	59	61	62	60	48	42	32	31	28	29	40	36	46	43	53	42	35	46	62	63	65	34	25	34	35	44.7
Bowling Green	Maximum	66	72	80	82	84	89	89	90	88	82	70	74	76	69	64	72	68	78	79	81	81	78	83	85	80	78	78	72	60	61	50	75.8
	Minimum	43	43	45	51	57	64	65	66	63	67	55	61	40	40	34	35	43	43	52	48	57	57	45	58	67	64	70	41	32	38	39	50.7
Danville	Maximum	67	72	76	80	79	85	87	89	89	88	75	74	76	78	62	73	68	78	78	81	80	75	79	85	81	82	82	74	59	52	51	75.8
	Minimum	47	41	42	47	51	65	61	64	60	61	52	44	32	35	28	34	43	35	63	51	55	63	38	52	56	62	65	41	27	35	32	47.5
Dix Dam	Maximum	65	70	78	83	80	83	88	90	90	88	87	71	76	62	64	73	75	77	78	81	79	78	79	78	79	80	81	70	59	55	52	75.6
	Minimum	48	43	48	45	52	64	63	63	62	56	55	48	36	38	32	32	38	38	42	38	57	55	40	45	55	61	66	43	30	37	33	48.0
Eubank	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	45	48	46	41	48	50	52	63	54	49	48	40	30	35	26	27	36	35	36	37	47	52	39	44	60	39	35	34	37	28	33	42.4
Frankfort	Maximum	67	71	80	84	82	85	92	95	91	89	71	72	77	70	62	77	68	77	81	88	81	76	81	83	75	81	81	71	60	56	54	76.5
	Minimum	45	40	40	42	48	60	60	57	62	53	43	31	34	27	27	39	32	43	40	49	46	44	44	61	61	66	41	28	31	31	31	44.4
Glasgow	Maximum	67	73	81	82	82	89	89	92	91	88	74	71	77	76	65	78	72	79	79	83	82	78	83	85	81	78	80	80	61	62	51	77.2
	Minimum	46	40	39	46	58	64	65	64	61	69	59	44	34	39	29	31	37	39	50	46	59	51	37	57	66	66	70	41	28	34	38	48.8
Greensburg	Maximum	66	71	81	84	83	88	89	88	90	91	84	79	79	75	50	68	74	66	79	78	82	80	74	83	88	78	78	82	71	62	53	42	75.9
	Minimum	44	37	36	41	49	50	59	58	55	51	50	42	30	39	24	25	38	33	44	40	65	46	33	49	60	60	65	39	24	29	34	43.8
Irvington	Maximum	62	70	77	82	83	82	87	89	89	88	68	69	76	62	69	72	56	76	78	80	75	73	80	83	74	79	77	68	59	63	50	73.7
	Minimum	41	40	45	48	67	65	64	66	63	59	54	45	36	35	32	29	42	37	54	46	58	55	39	49	66	66	68	38	31	40	38	48.4
Leitchfield	Maximum	63	71	81	83	83	87	89	92	90	85	71	72	78	68	66	72	67	77	80	83	80	77	85	86	74	76	78	71	60	51	46	75.5
	Minimum	41	39	40	50	55	61	64	62	60	58	52	47	36	34	32	34	42	38	53	50	58	52	42	53	64	65	71	37	27	38	37	48.8
Lexington	Maximum	63	70	80	84	80	83	90	90	91	87	67	70	75	55	63	73	63	76	79	81	79	73	78	82	76	81	80	72	60	56	50	75.7
	Minimum	45	40	42	61	54	60	68	54	63	64	48	40	37	36	31	37	40	36	52	61	57	43	39	46	52	63	52	34	29	33	30	46.2
Louisville	Maximum	63	70	76	81	81	81	87	89	88	81	68	67	76	64	63	72	63	74	78	81	78	72	79	81	76	77	78	61	63	62	48	72.3
	Minimum	42	43	46	52	60	67	67	70	67	57	65	50	42	39	37	39	48	42	57	52	68	58	47	60	66	69	69	38	35	43	37	51.0
Do. Bowman Field	Maximum	64	71	78	82	83	81	88	91	89	82	68	67	76	65	64	74	68	75	79	83	76	73	80	80	73	78	79	66	60	60	50	49	72.9
	Minimum	41	41	43	46	56	64	62	66	66	56	60	40	36	35	30	30	41	37	55	47	62	56	38	44	67	64	68	35	28	40	36	47.0
Mammoth Cave	Maximum	59	71	75	77	78	81	88	90	93	87	70	70	72	70	65	54	60	77	78	81	75	64	74	72	68	71	72	71	43	42	48	70.9
	Minimum	41	34	37	45	57	55	61	61	58	62	51	34	31	35	26	28	33	38	47	42	58	52	56	58	63	65	68	38	23	30	35	45.9
St. John	Maximum	69	69	79	83	83	83	90	92	87	80	70	73	78	73	64	76	69	76	78	81	82	78	84	85	77	77	77	72	60	60	50	75.7
	Minimum	45	43	47	47	54	61	62	60	59	63	55	48	40	41	38	35	49	43	51	46	56	52	42	54	54	64	67	47	27	40	45	49.8
Shelbyville	Maximum	65	70	80	82	82	82	90	90	90	89	83	70	70	76	66	64	75	62	76	79	81	79	73	78	79	81	77	78	76	70	59	52	51	74.4
	Minimum	40	37	40	46	53	58	60	61	59	63	51	44	34	31	29	33	42	34	48	47	65	50	36	44	62	60	66	36	27	34	30	45.5
Smith's Grove	Maximum	66	72	80	82	81	89	88	90	89	77	70	71	75	57	64	72	70	78	78	82	81	77	83	84	78	76	79	52	60	52	47	74.2
	Minimum	44	42	45	48	60	63	66	64	61	68	53	49	36	37	32	32	39	42	46	46	58	50	39	58	65	70	70	40	29	35	38	49.4
Stearns	Maximum	53	68	78	79	78	85	82	86	88	85	65	71	73	55	63	69	72	77	76	80	76	73	80	80	73	78	79	60	56	52	48	72.8
	Minimum	47	44	44	48	50	62	61	66	66	60	61	46	38	39	29	34	37	40	48	50	54	54	40	67	65	62	64	45	27	36	39	48.1
Taylorsville	Maximum	64	70	78	88	83	84	89	91	90	87	70	70	78	68	68	75	68	77	81	80	79	81	84	86	75	79	79	57	60	55	51	75.8
	Minimum	43	38	35	40	49	56	56	60	48	48	51	40	34	34	24	34	38	30	42	38	42	39	42	41	66	61	64	36	28	31	35	42.0
Williamstown	Maximum	61	68	72	83	85	86	88	90	90	88	72	66	73	70	58	72	67	71	78	80	76	69	72	78	74	80	79	71	65	63	49	73.4
	Minimum	42	39	41	49	56	62	63	66	64	66	52	45	39	34	29	37	46	34	55	51	69	49	39	44	68	62	64	40	28	39	26	47.8
Eastern Division.																																	
Annville	Maximum	59	70	78	80	79	84	84	89	89	88	75	72	75	57	64	71	69	79	76	81	82	75	79	85	80	83	..	..	..	70	48	°75.8
	Minimum	46	38	37	39	41	50	52	53	52	61	48	41	28	37	24	24	30	33	36	38	45	42	30	39	55	52	63	35	24	26	32	40.6
Ashland	Maximum	62	57	76	83	80	85	88	91	91	90	65	70	76	57	60	75	69	71	80	83	79	78	72	76	83	87	85	64	60	62	53	73.6
	Minimum	49	45	42	47	48	52	58	60	59	59	52	46	35	41	28	31	37	30	44	42	59	49	45	55	61	66	66	46	29	38	43	45.8
Berea	Maximum	62	68	73	79	78	84	83	82	87	86	70	73	69	68	58	68	75	76	78	78	76	75	76	75	85	80	80	76	60	58	58	73.8
	Minimum	45	49	42	42	55	64	64	64	64	67	49	48	35	36	32	29	45	40	57	54	69	43	49	50	56	61	64	42	28	35	33	48.7
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	66	67	78	80	74	80	82	87	87	81	66	67	74	64	58	66	58	71	74	78	75	67	75	76	66	79	71	48	56	47	47	68.9
	Minimum	48	37	71	41	45	68	57	57	56	56	53	48	30	34	25	26	33	30	40	40	42	44	32	49	56	58	65	45	25	27	35	43.6
Heidelberg	Maximum	63	70	78	83	82	86	84	91	90	89	75	72	77	58	64	74	67	78	78	83	80	75	78	85	78	88	82	78	59	59	47	76.8
	Minimum	52	42	41	44	46	58	61	57	55	56	51	45	33	36	28	27	34	34	40	40	42	44	34	40	56	56	65	46	29	33	43	72.9
Maysville	Maximum	64	68	71	84	79	85	89	90	89	86	75	69	76	55	68	78	68	73	79	81	78	70	72	76	82	82	70	57	53	47	45	74.9
	Minimum	48	38	42	47	51	52	59	60	60	63	54	45	34	39	29	32	41	31	46	46	51	49	38	45	56	59	64	29	32	34	34	45.9
Middlesboro	Maximum	67	70	74	77	77	83	84	..	..	85	72	69	71	60	68	68	73	75	78	77	80	76	77	86	76	77	80	78	75	60	61	78.5
	Minimum	54	41	42	49	48	59	56	..	..	56	56	45	44	36	30	29	32	34	42	42	46	48	35	43	63	58	69	50	27	28	37	44.6
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pikeville	Maximum	57	70	78	83	81	87	88	87	89	90	64	73	78	60	67	74	68	78	81	83	81	76	78	85	83	85	86	56	65	65	63	75.8
	Minimum	52	49	47	52	51	58	60	56	58	57	57	50	40	44	30	29	34	38	41	43	48	50	36	41	57	59	62	52	30	32	42	46.9
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Quicksand	Maximum	68	73	80	85	84	85	88	91	92	90	82	77	77	71	75	77	73	80	81	85	82	79	81	89	84	86	85	78	69	71	63	80.1
	Minimum	47	42	40	46	52	58	65	67	67	68	60	50	40	38	31	40	47	40	65	57	66	56	45	50	68	63	66	44	30	42	34	51.6
Richmond	Maximum	66	70	78	83	80	85	90	90	90	87	68	73	74	75	65	75	68	78	78	80	82	79	83	88	84	85	87	84	78	59	56	79.5
	Minimum	47	42	40	52	58	65	67	67	68	66	56	48	40	38	31	40	47	40	65	57	66	56	45	50	68	63	66	44	30	42	34	51.6
Williamsburg	Maximum	71	72	79	80	86	86	88	90	91	89	78	75	76	78	74	80	81	82	79	83	83	78	80	84	87	82	82	80	62	65	65	79.5
	Minimum	45	48	43	49	57	55	49	50	45	48	46	40	33	33	33	28	29	30	40	45	63	48	34	48	48	46	67	55	29	27	27	42.6
Winchester	Maximum	64	69	78	80	78	84	87	90	89	87	66	70	75	56	61	72	65	76	78	80	79	74	78	83	80	81	79	60	58	52	48	73.1
	Minimum	45	39	41	50	55	62	63	65	64	65	50	46	37	31	30	32	40	34	50	50	57	52	40	46	66	59	65	43	28	35	30	47.5

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

a,b,c etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville 11 26 39 1100

1.05-
KE
49
011

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., NOVEMBER, 1939 No. 11

GENERAL SUMMARY.

Unusual dryness and long periods of subnormal temperature characterized the weather. The rainfall was barely sufficient to bring up the fall grains and sustain growth. Because lack of moisture in the preceding month rendered germination uncertain and made the soil difficult to work, sowing of wheat continued in a limited way through the first two weeks. Most of this very late seeding occurred in the southern and western counties. Wheat had scarcely all come up by the end of the month. Light to moderate showers near the end of the first decade increased the water content of the surface soil enough to insure continued growth. A few days of relatively warm weather that followed these rains were very favorable for additional germination. From the 1st through this period day temperatures and generous sunshine favored advancement of fall grains, but frequent freezes at night had a retarding tendency. Therefore, while slow improvement continued, it did not permit grains to reach the size desirable for entry into winter. Stands improved as more seed germinated, mainly west and south, but remained unsatisfatory in most districts, especially on the drier uplands of the central and northern counties. Although undersized, the plants were rooted and vigorous. Rye for pasture was much more backward than usual at this time. A long period of cloudiness and low temperature in the last half greatly decreased the progress of grains and practically ended the growth of pastures.

Tobacco stripping made fair progress during and immediately following each shower period, but the prevailing dryness prevented seasonal results. These conditions favored corn gathering, which almost reached completion. The grain was cribbed in excellent condition. The usual loss from wet and fallen corn was practically non-existent this year. Although the temperature averaged somewhat lower than normal, the absence of inclement conditions made heavy feeding of livestock unnecessary. Water supplies for domestic use and for farm animals improved somewhat toward the end but remained short at all times. The rainfall was not sufficient to start small streams or influence wells.

TEMPERATURE.

Temperature on the first six days ranged from 5° to 15° below the seasonal average. Relatively cold weather, with less pronounced daily deficiencies, occurred from the 20th to 29th. Temperatures varying from 5° to 15° above normal prevailed in the periods 7-10th, 14-19th, and on the 30th. Maxima of 65° to 70° were registered on several days in these warm intervals. Extremes for the State ranged between 79° at Quicksand on the 10th and 14° at Annville on the 27th.

PRECIPITATION.

Precipitation averaged about one-third of the normal amount for this month. Local showers occurred in the period 4-8th, sometimes measuring as much as half an inch but usually lighter. Light to moderate and more general rains fell in the interval 19-25th. At a few western stations 1.0 inch or more was registered on the 19th and 20th. Precipitation diminished from a total above 2.0 inches in the extreme west to less than half an inch in the Big Sandy Valley. In a few western counties it ranged between 2.0 and 3.0 inches. In other western and most northern districts from 1.0 to 1.7 inches occurred. Most stations from the center of the State east to the Big Sandy reported less than 1.0 inch. For the State the total precipitation ranged between 0.26 inch at Louisa and 2.75 inches at Lovelaceville. No thunderstorms were reported.

MISCELLANEOUS.

Nov. 16.—Twenty-five forest fires in the eastern mountain region were reported by the State Forester.

Rivers -—Pool stages continued in all streams of the State during the month.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.)					Wind.				Relative humidity		Percentage of sunshine.
	Mean.	Highest.	Date.	Lowest.	Date.	Av. hourly velocity.	Maximum velocity.	Direction.	Date.	6.30 a. m.	12.30 p. m.	6.30 p. m.
Cairo ..... Ill.	30.29	30.69	27	29.86	19	7.4	21	n.	10	79	53	56	55
Cincinnati ..... Ohio	30.29	30.64	3	29.91	7	7.1	22	sw.	10	80	54	61	57
Evansville..... Ind.	30.29	30.68	27	29.95	19	7.3	29	sw.	10	74	51	54	48
Louisville ..... Ky.	30.28	30.62	3	29.94	7	7.3	35	ww.	10	84	52	66	53

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Precipitation		Number of days			
	Mean.	Highest.	Lowest.	Average.	Average snowfall	Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889	43.1	85	10	6.04	....	..	..	..	..
1890	48.6	81	19	4.87	....	..	..	..	..
1891	43.5	75	10	6.04	....	..	..	..	..
1892	42.3	78	9	3.85	....	..	..	..	..
1893	44.3	79	— 2	3.12	....	..	..	..	..
1894	43.3	80	8	1.32	....	4	..	..	..
1895	45.8	85	16	4.29	....	7	10	7	13
1896	49.3	80	11	5.01	....	8	10	8	12
1897	47.8	78	12	4.69	T.	10	13	7	10
1898	43.2	80	10	2.79	0.5	8	12	7	11
1899	49.8	79	20	2.12	T	8	11	7	12
1900	47.0	83	15	7.78	1.0	8	15	6	9
1901	41.8	82	11	1.82	T.	4	19	7	6
1902	53.4	90	20	4.42	0.3	11	11	6	13
1903	42.5	81	5	3.01	2.0	8	12	7	11
1904	44.7	79	14	0.89	T.	3	15	6	9
1905	46.4	79	14	3.55	T.	7	15	6	9
1906	46.1	93	11	5.02	2.3	7	13	6	11
1907	44.2	75	15	3.49	0.1	7	14	5	11
1908	48.6	80	8	2.61	0.2	7	14	7	9
1909	54.7	86	19	2.29	T.	6	15	6	9
1910	41.1	78	11	2.04	T.	6	16	5	9
1911	41.6	85	9	4.51	0.8	8	10	4	16
1912	45.2	82	10	1.22	0.2	4	16	5	9
1913	50.5	81	8	3.25	0.9	9	12	5	13
1914	46.9	83	5	1.23	0.4	5	18	5	7
1915	49.8	85	16	4.80	0.4	9	15	7	8
1916	47.8	83	8	1.52	T.	4	20	4	6
1917	44.3	78	11	1.23	0.1	5	14	5	11
1918	46.1	77	19	1.90	0.0	6	14	5	11
1919	47.4	78	16	7.31	0.0	9	15	5	10
1920	44.7	79	10	2.21	2.8	8	12	5	13
1921	49.8	79	20	7.96	T.	12	11	5	14
1922	48.3	87	10	1.93	0.4	6	16	6	8
1923	46.4	75	16	3.65	0.0	9	14	5	11
1924	47.7	83	13	1.82	0.1	9	11	7	12
1925	44.9	73	8	5.13	0.1	7	12	6	12
1926	42.9	80	0	3.40	2.0	9	10	7	13
1927	51.3	82	13	5.01	0.1	10	9	7	14
1928	46.8	78	10	3.93	T.	10	10	6	14
1929	44.6	81	— 9	4.03	3.0	11	8	6	16
1930	47.1	86	— 4	1.82	1.0	10	12	6	12
1931	55.0	84	19	3.52	T.	10	13	5	12
1932	43.8	78	11	2.71	0.4	9	14	5	11
1933	45.5	85	10	1.54	T	5	6	11	13
1934	50.5	84	14	2.85	T.	7	15	6	9
1935	47.3	85	11	3.85	T.	11	7	6	17
1936	42.9	81	10	3.50	3.4	5	14	8	8
1937	41.2	82	6	1.63	0.6	9	12	6	12
1938	47.9	83	2	3.68	3.7	9	16	5	9
1939	43.6	79	14	1.16	T.	6	13	5	12
Period	46.4	93	— 9	3.39	0.6	5	14	8	8

51-year averages.

Climatological Data for November, 1939.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation in inches				Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	
Western Division.																				
Beaver Dam	Ohio	441	27	44.1	−4.2	72	17	20	5	46	1.24	−2.40	0.62	0	3	17	1	12		Eldred G. Yonng.
Calhoun	McLean	437	35	44.1	−4.2	72	17	20	5	46	1.24	−2.40	0.62	0	3	17	1	12		R. C. Bennett.
Earlington	Hopkins	420	45	45.2	−2.8	72	16	20	28	48	1.57	−2.06	0.72	0	3	14	4	12	n.	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	....	....	....	....	....	....	....	1.49	−1.68	0.77	0	7	....	....	....		Lockmaster.
Gilbertsville	Marshall	481	....	....	....	....	....	....	....	....	1.73	.....	1.01	0	4	....	....	....		Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	48.9	−3.9	72	9†	17	5†	48	1.02	−2.32	0.42	0	4	14	3	13	n.	C. R. Lovell.
Hartford (near)	Ohio	640	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		W. R. Carson, Sr.
Henderson	Henderson	382	17	44.6	....	74	16	20	5	49	2.22	−1.57	0.78	0	6	13	7	10	e.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	44.6	−3.9	72	10†	20	5	45	1.67	−2.35	0.96	0	3	19	4	7	n.	W. K. Morris.
Lovelaceville	Ballard	479	10	44.0	−3.5	73	9	20	6	46	2.75	−0.61	0.85	0	6	11	9	10	n.	Blaine Malone.
Mayfield	Graves	364	30	46.6	−2.5	74	9	24	5	35	2.24	−1.64	1.23	0	6	11	10	9	n	Mrs. Joe Payne.
Murray	Calloway	412	13	45.2	−2.9	73	9	26	27†	34	1.95	−1.44	1.00	0	3	3	3	24	n.	Pat W. Wear.
Owensboro	Daviess	420	42	42.8	−4.2	68	17	20	5	39	1.31	−2.01	0.60	0	4	15	3	12	n.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	....	....	....	....	....	....	....	1.22	−1.59	0.56	0	7	....	....	....		Lockmaster.
Paducah	McCracken	341	19	44.5	−4.6	74	9	23	5	44	1.64	−2.29	0.68	0	5	7	6	17	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	46.6	−3.0	74	9	19	5	47	....	....	....	....	....	14	7	9	.....	Joe Lagore.
Princeton	Caldwell	529	32	45.7	−1.6	73	16	21	5	42	1.89	−1.40	1.21	0	5	10	4	16	n.	S. J. Lowry.
Ramsey, Lock 2	McLean	384	22	....	....	....	....	....	....	....	1.28	−2.14	0.57	0	7	....	....	....	.....	Lockmaster.
Russellville	Logan	590	26	41.4	−5.6	71	16	22	27	36	1.47	−1.81	0.81	0	6	14	5	11	n.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	....	....	....	....	....	....	....	1.66	−1.10	0.92	0	6	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	352	11	....	....	....	....	....	....	....	1.13	−1.67	0.53	0	7	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	39	41.4	−3.4	68	17	19	5†	43	0.74	−2.50	0.42	0	4	18	1	11	e.	C. E. Barret.
Bowling Green	Warren	500	43	46.2	−1.7	67	10	27	5†	37	1.34	−2.30	0.50	0	4	16	5	9	w.	Mrs. Lillie G Causey.
Brownsville, Lock 6	Edmonson	410	22	....	....	....	....	....	....	....	1.03	−2.83	0.62	0	4	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	48	....	....	....	....	....	....	....	1.14	−2.32	0.46	0	8	....	....	....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	....	....	....	....	....	....	....	1.38	−1.55	0.74	0	4	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	....	....	....	....	....	....	....	0.73	−2.51	0.33	0	5	....	....	....	.....	Lockmaster.
Danville	Boyle	955	15	43.8	....	72	10†	22	28	44	1.05	−1.96	0.32	T.	7	14	4	12	ne.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	[a]44.6	−3.0	69[a]	15	22[a]	27	38[a]	1.13	−2.00	0.44	0	4	10	4	16	ne.	Kentucky Utilities Co.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	1.21	....	0.34	0	7	....	....	....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	....	....	....	....	17	5†	....	....	....	....	....	....	8	5	17	n.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	43.2	−3.4	71	15†	20	27†	49	1.15	−1.81	0.41	0	6	11	6	13	w.	Lockmaster.
Gest, Lock 8	Henry	490	29	....	....	....	....	....	....	....	1.11	−2.13	0.55	0	5	....	....	....	.....	Lockmaster.
Glasgow	Barren	760	12	44.2	−4.8	72	16	19	28	45	0.90	−3.35	0.31	0	6	13	11	6	sw,	L. E. Turner.
Grant, Dam 38	Boone	506	14	....	....	....	....	....	....	....	1.39	−1.38	0.70	0	6	....	....	....	.....	Lockmaster.
Greensburg	Green	581	46	41.6	−4.1	69	10	16	27†	44	0.90	−2.65	0.25	0	5	3	1	26	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	....	....	....	....	....	....	....	1.07	−2.11	0.43	0	6	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	41	44.5	−2.2	71	14†	28	5	42	1.63	−1.62	0.63	0	6	9	4	17	n.	L. O. Stiles.
LaGrange	Oldham	850	....	....	....	....	....	....	....	....	1.20	.....	0.48	0	9	12	7	11	sw.	J. C. Ogg.
Lancaster	Garrard	1032	18	....	....	....	....	....	....	....	2.22	−1.04	0.80	0	7	....	....	....	.....	Kentucky Utilities Co.
Leitchfield	Grayson	635	43	43.8	−3.0	72	16	22	5†	40	1.34	−2.60	0.70	0	4	11	7	12	sw.	H. H. Willis.
Lexington	Fayette	989	55	42.4	−2.4	69	17	21	27	36	1.15	−2.19	0.68	0.1	9	16	3	12	.....	U. S. Weather Bureau.
LittleHickman, Lock 8	Jessamine	560	29	....	....	....	....	....	....	....	0.90	−2.24	0.46	0	4	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	....	....	....	....	....	....	....	1.03	−1.71	0.61	0	4	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	44.6	−2.1	67	17	29	28	31	1.16	−2.45	0.59	T	6	14	1	15	ne.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	42.3	.....	69	16	22	5†	38	1.17	.....	0.46	T.	6	....	....	....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	40.2	.....	69	15	17	28	46	1.13	.....	0.49	0	6	17	1	12	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	....	....	....	....	....	....	....	....	1.72	....	0.65	0	5	14	3	13	.....	E. O. Cooper
Munfordville	Hart	600	10	....	....	....	....	....	....	....	0.89	−1.77	0.52	0	3	....	....	....	.....	Chester Williams.
St. Jonn	Hardin	777	43	43.2	−2.6	69	17	22	5	41	1.26	−2 30	0.59	0	8	13	4	13	.....	Sisters of Loretto.
Salvisa, Lock 6	Mercer	520	24	....	....	....	....	....	....	....	1.19	−2.12	0.62	0	6	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	46	42.0	−2.8	68	16†	21	28	39	1.45	−1.80	0.32	0	12	11	0	19	sw.	Willis S Ratts.
Shepherdsville	Bullitt	500	2	....	....	....	....	....	....	....	1.06	....	0.42	0	7	11	10	9	sw.	C. W. Cuernsey.
Smith's Grove	Warren	607	1	44.6	....	72	17	23	6	39	1.01	....	0.53	0	7	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	8	43.6	....	71	15	22	6	40	1.20	.....	0 70	0	9	....	....	....	.....	Airway Station.
Taylorsville	Spencer	489	33	42.0	−3.1	69	15†	17	27	43	0.68	−2.68	0.30	0	3	26	4	0	nw.	Thad. Cheatham, Sr.
Tyrone, Lock 5	Anderson	524	21	....	....	....	....	....	....	....	1.10	−1.79	0.48	0	6	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	32	43.1	−2.1	69	10	23	27	30	1.12	−1.86	0.55	0	7	14	5	11	w.	Miss Lucile B. Simpson.
Woodbury, Lock 4	Butler	504	22	....	....	....	....	....	....	....	1.16	−2.28	0.58	0	6	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	.....	8	41.2	.....	72	10	14	27	49	0.76	.....	0.36	T.	7	12	5	13	ne.	W. A. Worthington.
Ashland	Boyd	534	22	45.1	−2.0	75	10	21	27	47	0.78	−2.12	0.32	0	9	11	8	11	w.	Lockmaster.
Berea	Madison	1070	36	43.5	−4.0	70	10	19	27	38	1.09	−2.28	0.20	0	10	13	5	12	n.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	....	....	....	....	....	....	....	0.89	−2.01	0.28	0	7	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Olon Cook.
Cynthiana	Harrison	684	21	....	....	....	....	....	....	....	0.51	−2.52	0.31	0	2	....	....	....	.....	S M Hill.
Falmouth	Pendleton	600	50	....	....	....	....	....	....	....	1.22	−1.73	0.50	0	6	....	....	....	.....	Jessie Oldham.
Farmers	Rowan	668	32	40.8	−5.2	67	10†	15	27	42	1.00	−1.99	0.30	0	8	10	6	14	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	....	....	....	....	....	....	....	1.47	−1.91	0.65	0	7	....	....	....	.....	C. A. Glascock
Ford, Lock 10	Clark	593	28	....	....	....	....	....	....	....	0.76	−2.10	0.27	T	7	....	....	....	.....	Lockmaster.
Grayson	Carter	589	9	....	....	....	....	....	....	....	0.76	−1.87	0.30	0	3	....	....	....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	....	....	....	....	....	....	....	1.25	−1.77	0.55	T.	8	....	....	....	.....	Lockmaster.
Hazard	Perry	869	15	....	....	....	....	....	....	....	0.79	−2.26	0.30	T	5	....	....	....	.....	H. A. Bally.
Heidelberg, Lock 14	Lee	663	4	43.3	.....	72	16	20	27†	47	0.92	−1.99	0.42	0	7	13	2	15	sw.	Lockmaster.
Jackson	Breathitt	776	15	....	....	....	....	....	....	....	0.76	.....	0.25	T.	5	....	....	....	.....	Jas T Goff.
Jenkins	Letcher.	1566	13	....	....	....	....	....	....	....	0 68	−3.06	0.28	0	7	....	....	....	.....	R. J. Howard,
Louisa	Lawrence	584	36	....	....	....	....	....	....	....	0 26	−2.44	0.06	0	6	....	....	....	.....	Zeb Heston.
Maysville, Dam 33	Mason	524	41	42.4	−2.8	69	10	21	27†	44	1.16	−1.89	0.66	T.	6	10	11	9	sw.	Lockmaster.
Middlesboro	Bell	1128	40	[a]42.1	−4.2	67[a]	11	19[b]	28	43[b]	1.08	−2.44	0.42	0	8	....	....	....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	W. R McKee.
Oneida	Clay	800	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Garret Combs.
Oneonta, Dam 35	Campbell	497	17	....	....	....	....	....	....	....	0.96	−1.95	0.40	T.	5	....	....	....	.....	Lockmaster.
Paintsville	Johnson	620	5	....	....	....	....	....	....	....	0.53	....	0.17	0	4	....	....	....	.....	A. L. Bonta.
Pikeville	Pike	636	3	43.2	.....	76	10	24	6	47	0.56	−2.40	0.18	0	3	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035.	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	[a]45.6	−1.4	79[a]	10	17[a]	28	56[a]	0.91	−2.96	0.53	T.	3	....	....	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	....	....	....	....	....	....	....	1.39	−1.33	0.34	0	8	....	....	....	.....	Lockmaster.
Richmond	Madison	926	42	45.1	−2.1	70	16†	23	27	36	1.16	−2.19	0.40	0	7	15	8	7	.....	J. W. Crooke.
Valley View, Lock 9	Madison	571	26	....	....	....	....	....	....	....	1.05	−2.41	0.46	0	6	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	1.43	−1.40	0.67	0	8	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	42	44.2	−3.4	70	21	17	27	49	0.91	−2.44	0.39	0	6	16	5	9	.....	Wadely West.
Willow, Lock 13	Lee	646	19	....	....	....	....	....	....	....	1.02	−2 36	0.35	0	6	....	....	....	.....	Lockmaster.
Winchester	Clark	964	2	42.8	....	68	15†	24	5	38	0.90	.....	0.32	0	9	....	....	....	.....	Airway Station.
State averages and extremes		.....	..	43.6	−2.8	79	10	14	27	66	1.16	−2.23	1.23	T.	6	13	5	12	n.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. [2]Hanusey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
* Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Errata.—September, 1939: Page 34, Paducah, lowest temperature should be 48 on 23d; Shelbyville, greatest 24-hour amount should be 0.56.

Daily Precipitation for November, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G							.02			.62									.60													1.24
Carlington G							T.			.61									.72	.24												1.57
Cords Ferry Dam 50[3] O							.05	.01			.53								.10	.77	.02			T.	.01	T.						1.49
Gilbertsville[3] T											.43								.25	1.01	.04											1.73
Greenville G							.05			.42									.40	.15												1.02
Hartford G																																
Henderson O							.15			.63									.78	.63				.03								2.22
Hopkinsville C										.61										.96	.10											1.67
Hovelaneville M										.80								.30	.28	.85				.22						.30		2.75
Mayfield M							.05			.69									1.23	.17	.03			T.	.07							2.24
Murray T										.84								.12	1.00													1.96
Owensboro G							T.				.60							T.	.30	.39				.02								1.31
Owensboro, Dam 46[3] O							.02	.03			.53								.04	.56	.02				.02					T.		1.22
Paducah[2] O							.01				.68							T.	.31	.46	.08			T.	T.							1.54
Paducah (near)‡ O																																
Princeton G							.02			.54									1.21	.08	T.				.04							1.89
Ramsey, Lock No. 2[3] G							.02	.04			.57								.05	.57	.02				.01							1.28
Russellville[3] G							.07	.01			.47								.11	.61												1.47
Scuttontown, Dam 49[3] O							.07				.44								.13	.92	.06			T.	.04							1.66
Central Division																																
Addison, Dam 45.[3] O							T.	.05			.53								.01	.44	.08	.01	T.		.01							1.13
Anchorage G							T.	.03		.42	T.								.17	T.				.12	T.					T		0.74
Bowling Green G							.10				.50								.32	.42												1.34
Bowling Green No. 2[3] G							T.	.10			.45								.62	T.				T.								1.17
Brownsville, Lock No. 6[3] G							.03	.03			.35								62													1.03
Burnside[2] C							.03	.03			.20								.30	.46		.03			.05	.04						1.14
Carrollton Lock No. 1[3] K																			.74	.38	.03				.23							1.38
Cold Spring, Dam 36[3] O											.15								.19	.33	.02									.04		0.73
Danville[2] K				.02	T.			.06			.16								.32	.23		.03		.23								1.05
Dix Dam, Burgin K										.22									.44	.26										.21		1.13
Eadsville[3] O							T.	T.			.23								.84	.34	.02	.02		.14	.12							1.21
Elkhank O																																
Frankfort, Lock No. 4[3] K								.13			.17								.41	.25	.03			.16						T.		1.15
Frest, Lock No. 3[3] K											.28								.55	.06	.14			.08								1.11
Glasgow G							.07			.25									.02	.31	.20	T.		.05								0.90
Grant, Dam 33[2] O								.10			.14									.36	.70	.07	T.		.02					T.		1.39
Greensburg G								.09			.22									.23	.12				.22								0.90
High Bridge, Lock No. 7[3] K				T.				.08			.21									.43	.26	.04	T.		.03	T.							1.07
Irvington O							.03	T.		.58	T.								.36	.63	T.	.01		.02								1.63
LaGrange O			T.				.01	.04		.27	.15			.01					.04	.48	.03			.17	T.							1.20
Lancaster[2] K				.12			.40			.15									.30	.25		.80		.20								2.22
Leitchfield[2] G							.02				.60									.70	.02											1.34
Lexington[2] K			T.	.01			.01	.10		.17									.24	.54	.01			.06						T.		1.15
Little Hickman, Lock No. 8[3]† K								.10			.10									.46	.24											0.90
Lockport, Lock No. 2[3] K								.03			.26									.61	.13	T.			T.					T.		1.03
LOUISVILLE[1]‡ O							T.	.08		.41									T.	.29	.30	.01	T.		.10					T.		1.16
Do. Bowman Field O							.01	.04		.46									.26	.29	T.	T.		.11	T.					T.		1.17
Mammoth Cave[2] G							T.	.08			.45									.49	.04	.01			.06								1.13
Monticello[3] C				.05															.47		.55				.15					.50		1.72
Munfordville[2] G							T.	T.			.29									.52	.08											0.89
St. John S							.03	.02			.48									.59	.02	.03	.05		.03								1.25
Salvisa, Lock No 6[3]† K								.07			.21									.52	.21	.06	T.		.12								1.19
Shelbyville S							.05	.14		.11	.22	.01							.21	.35	.05		.13		.13					.03		1.15
Shepherdsville S							.03	.10		.36	.03								T.	.42	T.	.07		.05								1.06
Smith's Grove G							.01	.03			.34									.63	.08	.01			.01								1.01
Stearns C				.04				.01			.13									.17	.70	.03	.02		.05	.05							1.20
Taylorsville S							T.			.30									.10	.28	T.											0.68
Tyrone, Lock No. 5[3]† K								.12			.15									.18	.20	.05	T.		.10								1.10
Williamstown L							.08			.05	.10									.55	.19	.12			.03								1.12
Woodbury, Lock No. 4[2] G							.03	.02			.50								.01	.58					.02							1.16
Eastern Division																																
Annville[3] C				.05			.02				.05								.18	.36	.06	.03		.01								0.76
Ashland[2] O				.02	.06			.01			.08									.13	.32	.12	.02		.02								0.78
Berea K			T.	.10			.11	T.			.17								.17	.20	.13	.01	.04	.02	.14							1.09
College Hill, Lock No. 11[2] K				.09				.09			.12									.28	.12	.05	.04		.10								0.89
Cumberland C																																
Cynthiana[3] L				T.				T.												.31	.20	T.										0.51
Falmouth[2] L								.02			.22									.37	.50	.10			T.					.01		1.22
Farmers[2] L				.13			.06				.12									.18	.30	.14			.02					.05		1.00
Flemingsburg[2] L				.02			.13			.24											.30	.65	.09		.04								1.47
Ford, Lock No. 10[3]† K				.07	T.			.08			.15									.27	.10	T.	.04		.05								0.76
Frayson[2] O					.30															.21	.25												0.76
Greenup, Dam 30[3] O				.03	.06			.07			.06									.25	.56	.20	.03		T.								1.25
Hazard[2] K				.30							.10									.12	.15				.12								0.79
Heidelberg, Lock No. 14[2] K				T.				.11			.07									.24	.42	.02	.01		.05								0.92
Jackson[2] K				.26			T.	.07			T.									.22	T.	.18	.04		T.	T.							0.76
Jenkins[2] B				.12	.09															.11	.23	.08	.01		.02								0.66
Louisa[2] B				.05				.04			.06										.63	.02			.04								0.26
Maysville, Dam 33[3] O				T.				.07			.16									.17	.66	.07	T		.02	T.							1.15
Middlesboro C			.13	.30							.05								.03	.42	.08	.02		.05								1.08
Mount Sterling L																																
Oneida† K																																
Oneonta Dam 35[3] O								.03			.22									.18	.40	.18	T.		T.					T.		0.96
Paintsville[2] B				.11				.13	T.											.12	T			.17								0.53
Pikeville B				.08	.07			T.	.12		.02									.02	.18	.06	T.	T.	.01	T.							0.56
Pippapass K																																
Quicksand[2] K											.53										.16	.22											0.91
Ravenna, Lock No. 12[3] K				.13	T.			.08			.18									.34	.28	.11	.08		.19								1.39
Richmond K				.10				.15			.10									.40	.10		.05		.20								1.10
Valley View, Lock No. 9[2] K					T.			.08			.12									.46	.84				.05								1.05
Vanceburg, Dam No. 32[3] O				.03				.10			.27									.23	.67	.12	.03		.03								1.48
Williamsburg[2] C				.09	.04						.16									.19	.39		T.	.04									0.91
Willow, Lock No. 18[3] K								.08												.30	.35	.03	.11		.15								1.02
Winchester K				.06	.01			.10			.14									.32	.14	.04	.04		.05								0.90

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3]Precipitation measured with recording gage. *Included in the next following measurement.
T. Trace, or precipitation less than 0.01 inch. †Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky; Lock 10, Red House, Ky; Oneonta, California, Ky. River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for November, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	59	51	51	49	55	60	63	66	70	66	50	55	59	66	71	71	72	63	57	46	42	42	43	52	48	45	52	53	54	54	..	56.0
Calhoun	Minimum	34	30	30	27	20	28	40	45	28	44	32	35	27	25	25	33	32	45	42	40	36	36	37	33	40	29	23	22	24	25	..	32.2
	Maximum	59	53	50	48	50	59	63	62	65	68	49	54	58	66	70	72	69	66	63	61	42	43	44	51	48	45	47	50	52	57	..	56.1
Earlington	Minimum	36	32	30	24	21	28	41	40	43	45	34	51	25	26	27	25	29	47	50	41	36	36	27	36	40	29	21	20	26	44	..	34.3
	Maximum	60	52	48	47	52	60	62	62	72	67	50	54	58	69	72	72	69	66	62	52	41	42	42	51	48	44	48	51	52	58	..	56.1
Greenville	Minimum	29	30	27	27	17	24	39	41	27	46	39	31	25	24	26	34	39	43	47	39	34	34	32	30	38	27	19	17	23	42	..	31.7
	Maximum	61	51	50	49	56	62	66	62	71	65	52	55	62	69	74	72	72	66	58	51	40	42	41	53	46	45	49	52	54	58	..	56.5
Henderson	Minimum	35	29	29	25	20	28	42	39	28	43	27	30	26	26	25	35	38	44	46	39	35	36	37	34	39	29	23	23	25	42	..	32.6
	Maximum	63	55	60	48	53	60	62	64	68	72	58	59	59	69	72	71	69	67	56	50	40	44	43	52	45	44	48	54	55	60	..	57.2
Hopkinsville	Minimum	27	31	30	25	20	28	38	35	31	38	33	33	31	25	27	27	41	41	50	44	35	33	33	32	35	28	24	23	25	38	..	32.0
	Maximum	63	60	48	48	53	59	67	66	73	67	46	51	58	67	69	66	68	67	65	53	40	47	51	51	48	43	48	44	49	55	..	56.8
Lovelaceville	Minimum	26	36	29	32	18	20	41	34	32	44	31	34	25	22	24	39	42	49	51	39	33	32	22	30	40	31	24	22	21	39	..	31.7
	Maximum	64	56	48	47	53	61	67	68	74	71	47	51	58	67	69	71	69	68	63	55	41	46	50	53	48	45	48	51	50	57	..	57.0
Mayfield	Minimum	35	36	32	34	24	28	44	42	39	44	34	37	31	31	34	42	47	52	53	40	36	26	27	35	41	35	26	28	30	43	..	36.2
	Maximum	61	50	48	46	51	59	63	62	73	61	50	48	54	67	69	67	66	62	54	46	46	50	51	58	45	47	50	52	53	..	..	55.8
Murray	Minimum	36	35	32	29	28	31	41	42	39	40	31	30	32	31	35	40	45	51	53	40	33	28	29	34	30	26	26	31	31	..	..	34.6
	Maximum	55	47	47	48	50	56	61	57	66	65	52	54	56	68	66	67	68	60	52	44	43	42	43	52	45	42	47	47	49	53	..	53.3
Owensboro	Minimum	80	30	28	30	20	28	39	42	28	52	30	29	27	26	33	28	35	45	47	40	38	34	35	32	38	28	25	21	24	33	..	32.4
	Maximum	62	50	50	49	54	60	67	62	74	65	50	53	61	66	69	70	69	66	54	52	36	48	50	52	43	45	50	52	51	58	..	56.8
Paducah	Minimum	34	36	34	35	23	24	21	38	34	40	36	36	32	26	26	26	42	42	50	44	36	28	26	30	36	34	28	26	26	30	..	32.7
	Maximum	63	55	50	50	50	60	67	64	74	69	56	53	62	69	72	71	71	68	61	53	40	47	52	52	47	45	49	56	51	57	..	57.8
Paducah (near)	Minimum	32	36	30	35	19	25	44	35	33	45	33	36	26	24	25	40	43	50	51	40	36	25	24	34	40	31	24	21	26	41	..	33.5
	Maximum	64	52	49	47	54	63	64	64	72	68	50	53	60	68	71	73	71	67	64	51	41	44	44	51	48	44	47	53	52	58	..	56.9
Princeton	Minimum	33	34	28	31	21	25	42	42	35	44	33	33	30	26	30	38	42	48	50	40	35	35	36	35	39	28	25	26	28	43	..	34.5
	Maximum	61	44	46	36	36	57	45	53	68	64	50	52	55	65	71	68	59	59	52	47	38	37	37	44	42	37	48	49	56	49	..	50.5
Russellville§§	Minimum	36	31	29	24	26	24	34	39	31	37	32	33	27	25	27	34	36	39	47	45	36	33	35	32	35	27	22	23	34	38	..	32.4
Central Division.																																	
Anchorage	Maximum	55	49	48	40	50	58	54	55	63	66	55	54	56	65	67	67	68	63	65	46	38	39	42	46	47	47	47	52	51	51	..	53.4
	Minimum	29	22	28	25	19	25	35	31	26	42	25	27	21	24	24	27	31	39	45	35	35	33	37	36	34	34	19	19	21	40	..	29.3
Bowling Green	Maximum	60	53	48	47	48	59	58	62	68	67	65	58	58	65	68	70	67	65	63	53	43	43	45	50	46	44	49	51	53	57	..	55.9
	Minimum	42	34	35	31	27	27	42	48	45	45	37	37	33	28	32	35	41	42	51	42	38	36	37	38	39	30	27	28	30	43	..	36.6
Danville	Maximum	68	51	49	43	47	59	52	57	65	72	60	56	58	67	72	71	69	61	60	55	44	42	41	43	46	45	48	51	52	55	..	55.0
	Minimum	32	27	29	33	24	26	37	42	24	43	31	31	27	26	28	31	36	40	51	39	35	35	36	40	38	26	27	22	24	40	..	32.7
Dix Dam	Maximum	51	48	..	45	48	58	54	56	63	68	64	59	61	57	69	68	68	61	60	55	41	44	42	45	46	46	49	53	56	54	..	ª54.8
	Minimum	28	30	..	35	24	30	40	44	27	49	40	32	29	27	28	30	37	40	51	41	37	40	38	36	40	30	22	25	27	44	..	ª34.4
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Enhank	Minimum	28	23	29	29	17	20	30	31	22	30	29	31	24	23	25	26	32	42	39	42	37	37	36	34	37	29	17	20	23	31	..	29.1
	Maximum	58	53	48	46	51	60	54	59	63	67	53	59	59	68	71	71	71	62	62	59	40	39	43	44	49	49	50	58	61	53	..	55.7
Frankfort	Minimum	32	25	28	30	23	25	34	41	24	42	28	27	24	24	22	28	34	36	47	40	36	34	37	37	38	29	20	20	21	39	..	30.7
	Maximum	59	58	51	48	49	59	58	59	68	69	56	54	58	68	70	72	70	66	61	54	43	40	45	51	48	44	51	53	52	55	..	56.7
Glasgow	Minimum	33	26	32	34	31	23	31	42	26	43	30	35	25	24	25	29	34	38	50	41	35	34	30	31	38	29	20	18	23	40	..	31.8
	Maximum	58	53	48	44	49	59	53	60	66	69	58	56	52	65	67	68	68	62	57	58	41	40	42	48	47	45	49	53	53	55	..	54.8
Greensburg	Minimum	27	22	28	32	18	19	33	43	21	41	28	29	22	20	21	24	31	36	47	37	35	32	31	29	35	25	16	16	20	34	..	28.4
	Maximum	54	48	46	45	50	57	58	62	66	65	50	56	57	71	70	66	71	68	57	54	39	42	42	50	46	43	48	50	54	55	..	55.4
Irvington	Minimum	33	30	30	33	23	30	43	44	29	43	32	33	30	29	29	34	39	45	50	37	35	36	39	37	35	28	25	24	26	43	..	34.2
	Maximum	58	50	46	47	50	59	57	60	67	66	50	53	57	65	70	72	70	62	58	51	39	41	44	48	45	44	48	50	49	54	..	54.0
Leitchfield	Minimum	32	28	29	25	22	28	40	44	29	44	32	33	29	29	30	38	42	45	50	38	36	35	36	34	39	28	22	24	27	41	..	33.6
	Maximum	56	49	46	40	45	57	51	56	62	68	49	56	57	65	68	68	69	60	61	45	38	37	40	44	47	42	49	53	50	52	..	52.7
Lexington	Minimum	31	27	28	29	23	27	39	29	28	37	31	30	30	29	33	37	39	42	45	36	35	34	37	33	32	27	21	24	28	42	..	32.1
	Maximum	54	48	43	44	49	58	56	55	63	66	49	55	55	68	66	66	67	63	54	46	38	40	42	45	47	43	48	49	50	51	..	52.5
Louisville	Minimum	38	34	30	36	30	35	46	40	36	42	36	35	33	34	38	38	45	47	46	47	36	37	39	38	34	30	30	29	31	44	..	35.7
	Maximum	55	49	45	44	48	58	55	55	63	66	49	55	56	64	67	69	67	62	55	45	39	40	42	46	47	44	45	50	48	51	..	52.6
Do. Bowman Field	Minimum	31	27	27	32	22	31	40	30	27	40	31	31	27	28	28	31	38	42	45	36	35	35	38	36	31	27	24	22	25	43	..	32.0
	Maximum	47	48	46	41	45	45	57	55	60	50	45	55	59	61	69	50	55	56	57	55	40	40	45	50	44	44	43	48	51	53	..	50.7
Mammoth Cave	Minimum	32	25	26	26	18	21	36	43	24	42	32	29	24	22	23	28	38	32	38	37	36	34	32	30	30	35	26	26	17	21	39	29.6
	Maximum	60	50	50	50	50	61	56	61	64	61	49	53	57	67	71	71	69	62	59	55	40	49	43	42	46	45	41	47	46	57	..	54.4
St. John	Minimum	24	26	27	27	22	23	36	41	26	49	32	32	27	25	25	30	36	41	49	37	36	36	36	38	38	28	25	28	25	37	..	32.1
	Maximum	53	49	45	45	49	58	52	56	62	65	52	55	57	65	67	68	68	61	59	56	38	37	41	42	45	42	48	52	49	52	..	52.9
Shelbyville	Minimum	29	26	26	30	28	26	37	37	28	45	26	28	26	26	30	30	38	41	47	35	33	32	35	32	35	26	23	21	23	38	..	31.1
	Maximum	60	51	48	47	50	58	58	60	68	68	50	55	57	67	69	71	72	60	58	47	46	41	44	50	45	45	51	54	52	55	..	55.2
Smith's Grove	Minimum	33	29	31	27	23	24	41	44	30	50	34	35	28	26	29	32	36	43	46	36	35	33	35	33	39	28	25	24	26	42	..	33.9
	Maximum	60	54	44	46	45	57	52	58	68	68	50	54	55	64	71	69	68	59	61	59	47	37	40	48	41	48	47	52	53	58	..	53.9
Stearns	Minimum	28	22	28	24	22	28	36	40	28	47	35	34	32	29	31	35	37	44	48	47	37	32	34	31	38	30	23	26	27	40	..	33.4
	Maximum	58	50	47	48	50	60	55	58	64	67	50	56	58	65	69	68	69	61	60	53	40	40	42	46	48	45	51	55	50	59	..	54.7
Taylorsville	Minimum	32	23	27	32	21	23	35	34	23	40	28	22	21	22	20	23	32	35	47	37	35	35	38	34	39	26	17	18	19	39	..	29.2
	Maximum	62	54	47	48	50	60	55	58	64	67	50	56	58	65	69	68	69	61	60	53	40	42	46	48	45	51	55	60	52	59	..	56.2
Williamstown	Minimum	32	30	27	29	24	31	37	40	29	45	27	33	29	32	36	39	42	43	46	35	35	32	35	37	37	27	23	24	29	40	..	33.6
Eastern Division.																																	
Annville	Maximum	60	54	49	46	45	56	63	59	64	72	51	57	57	65	69	68	67	62	60	58	48	39	40	46	47	44	49	54	50	53	..	55.0
	Minimum	23	22	28	32	18	18	26	33	19	29	29	29	21	19	20	21	28	38	46	45	37	33	35	29	38	25	14	16	19	33	..	27.3
Ashland	Maximum	60	51	49	50	50	58	56	57	60	75	69	59	58	65	71	72	71	65	64	60	54	47	45	50	50	47	45	50	49	57	56	57.2
	Minimum	36	30	35	36	37	36	40	47	28	54	33	33	26	25	25	30	36	47	41	40	37	37	37	40	28	21	23	22	26	36	..	33.0
Berea	Maximum	58	50	46	48	44	55	58	57	63	70	65	55	53	62	67	69	67	63	64	51	43	43	40	45	45	45	42	50	52	50	..	53.8
	Minimum	35	26	29	33	33	29	32	43	25	50	33	26	27	31	32	48	40	42	41	36	36	35	35	36	32	27	19	22	25	42	..	33.2
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Cumberland	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	38	46	45	45	43	61	53	55	54	67	67	53	53	60	63	63	64	63	61	61	45	45	40	42	46	46	45	50	50	50	..	52.4
Farmers	Minimum	28	22	21	32	24	22	28	43	25	33	29	25	22	21	21	23	32	45	40	38	34	36	26	34	21	15	18	19	35	..	..	28.2
	Maximum	61	54	48	44	48	56	59	66	72	62	58	60	66	69	71	67	61	62	56	49	41	45	45	45	45	50	55	52	55	..	..	55.7
Heidelberg	Minimum	29	25	27	36	28	28	31	43	22	29	35	30	25	23	22	24	31	37	45	47	40	36	38	33	39	30	20	20	20	39	..	30.9
	Minimum	56	49	45	44	49	56	58	61	69	51	56	57	63	68	68	68	68	63	59	53	43	40	42	46	46	46	46	48	46	49	..	53.7
Maysville	Minimum	33	26	23	35	24	27	30	44	24	38	29	27	26	26	24	26	35	37	44	39	39	36	36	38	38	27	21	22	21	38	..	31.1
	Maximum	60	54	47	48	48	58	59	62	66	67	65	..	61	65	64	64	58	64	56	54	43	42	47	44	45	45	53	51	55	..	..	ª54.4
Middlesboro	Minimum	24	27	28	32	29	22	28	..	28	31	36	35	..	21	22	23	24	36	40	48	41	35	38	30	39	29	20	19	21	31	..	ª29.8
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Mount Sterling	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	63	55	46	41	46	56	57	61	62	76	51	58	56	62	63	61	65	64	57	55	49	46	43	46	46	39	40	47	47	55	..	53.8
Pikeville	Minimum	31	26	27	36	34	24	30	49	25	29	37	31	28	25	26	26	30	35	39	46	46	41	39	38	46	36	39	40	41	47	..	32 5
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Pippapass	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Maximum	70	55	52	49	65	72	77	..	69	79	58	66	67	77	76	76	77	72	72	68	65	48	47	45	49	50	51	52	55	58	..	ª62.7
Quicksand	Minimum	24	26	31	27	21	28	42	..	21	27	34	27	22	21	21	22	28	33	41	41	37	34	35	31	24	15	17	18	18	35	..	ª28.4
	Maximum	53	54	54	42	50	60	58	56	66	68	53	58	60	65	70	70	70	60	62	44	42	40	42	43	48	48	42	58	55	55	..	54.9
Richmond	Minimum	34	30	30	36	24	30	48	44	30	50	35	34	30	32	36	37	43	45	50	42	36	40	42	46	35	36	34	38	28	23	26	30	43	..	35.3
	Maximum	66	70	68	66	67	58	67	66	68	68	66	68	58	60	70	69	70	58	70	65	59	48	45	48	49	47	50	54	52	59	..	61.8
Williamsburg	Minimum	28	27	26	25	24	22	26	26	23	29	34	28	31	25	21	22	26	37	33	30	40	30	33	31	26	25	17	18	21	30	..	27.1
	Maximum	57	50	48	40	46	56	52	55	61	66	50	56	57	64	68	68	68	59	62	45	41	37	40	43	48	42	48	52	49	53	..	52.7
Winchester	Minimum	32	30	26	32	24	28	35	42	27	46	31	32	28	29	32	34	40	42	45	41	35	35	34	33	37	27	22	25	27	39	..	33.0

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

ª, ᵇ ᶜ etc. indicate respectively 1, 2, 3 etc., days missing from record.

W. B. O. Louisville 12-28-39 1100

51.05
NAE
.94
Vol 12

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., DECEMBER, 1939 No. 12

GENERAL SUMMARY.

Weather much warmer than normal prevailed during the first two decades. Although temperatures frequently fell to freezing or somewhat lower at night, the relative warmth and sunshine of the days caused slow growth of winter grains to continue. Of these rye and barley showed most improvement. In occasional fields grains reached almost full size for this stage of development and practically covered the ground. In most cases, however, plants remained undersized but became well rooted and vigorous, largely as a result of this late spell of favorable weather. Growth increased in the very mild weather at the end of the period. A rather abrupt change to winter conditions began on the 20th, followed by heavy snow in central and western districts on the 24th. Additional snow on the 27th spread over the eastern districts. Most of the grain growing section of the State had moderate to heavy snow cover during the severe freezes that centered about the 25th and 31st. Prior to the onset of midwinter weather plowing had continued quite generally, but there was some hindrance in places from dry soil. The lack of rain also retarded tobacco stripping during the warm period and the dry cold weather interfered during the last decade. The water supply for livestock remained scanty in most places. It was increased by melting snow in the southern counties late in the month, but much inconvenience resulted at that time from the freezing of shallow pools and small streams. The snow melted very slowly in central and northern districts, where two to five inches remained on the ground at the end of the month. The weather of the first three weeks was exceptionally favorable for completing corn gathering and other early winter work outdoors. Livestock ran in the open and feeding requirements were relatively low. Egg production before the cold spell was higher than usual. The midwinter severity of the last week, with the heaviest snow accumulation in many years, stopped field work and raised the needs of animals to the cold weather maximum. Ice on roads made traveling hazardous in the central and northern parts of the State.

TEMPERATURE.

Except on the 3d and 4th, which were moderately cold, mean temperatures on most days from the 1st to 19th ranged between 5° and 20° above normal. There were two short periods of decided warmth, 7-10th and 16-19th, when maxima exceeded 60°. Most days after the 20th showed rather large temperature deficiencies, especially in the north-central counties near the end of the month. On the coldest days, which were the 25th and 31st, minimum temperatures ranged from 0° to 10° in northwestern districts and from 10° to 15° in the southern and eastern counties. Extremes for the State were 72° at three stations from the 7th to 10th and −2° at Quicksand and Heidelberg on the 25th.

PRECIPITATION.

The precipitation for the State averaged somewhat more than half the normal amount. In the extreme northern counties it ranged between 1.2 and 2.0 inches. In a broad east-west belt through the center of the State from 2.0 to 3.0 inches occurred. Some southern counties received from 3.0 to 4.0 inches. For the State amounts varied between 4.11 inches at Monticello and 1.15 inches at Cynthiana. Light to moderate rain occurred in the periods 1st-3d, 13th, and 19-20th. Most districts were visited by heavy snow on the 23d-24th and 26-27th. More than half of the total precipitation in many districts fell in these two snowstorms. No thunderstorms were reported.

MISCELLANEOUS.

December 9-12th.—Twenty-six forest fires were reported to be active in the eastern and southeastern counties.

Rivers:—The run-off was very slight and streams remained at pool stage during the month.

Errata.—October, 1939, page 38: Mayfield, lowest temperature should be 31 on the 31st.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

Stations.	Atmospheric pressure (reduced to sea-level.) Mean.	Highest.	Date.	Lowest.	Date.	Wind. Av. hourly velocity.	Maximum velocity.	Direction.	Date.	Relative humidity 6.30 a. m.	12.30 p. m.	6.30 p. m.	Percentage of sunshine.
Cairo .....Ill.	30.04	30.40	14	29.61	26	9.0	25	ne.	23	78	60	65	60
Cincinnati .....Ohio	30.00	30.41	22	29.60	2	9.5	24	w.	7	81	64	70	40
Evansville..... Ind.	30.03	30.42	22	29.59	27	9.6	25	sw,	12	78	60	65	55
Louisville .....Ky.	30.02	30.40	22	29.55	27	9.9	28	sw.	16	83	62	68	45

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature. Mean.	Highest.	Lowest.	Precipitation Average.	Average snowfall	Number of days Precipitation .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1889.....	50.2	76	13	1.57	....	..	..	..	..
1890.....	37.8	70	12	3.51	....	..	..	..	..
1891.....	42.4	70	15	4.10	....	..	..	..	..
1892.....	34.6	74	− 3	4.22	....	..	..	..	..
1893.....	39.0	78	10	2.69	....	..	..	..	..
1894.....	38.7	76	−11	4.31	....	10	..	..	..
1895.....	38.8	77	6	4.43	....	9	7	9	15
1896.....	39.6	73	7	1.82	....	4	14	8	9
1897.....	38.0	72	3	3.75	2.5	10	5	8	18
1898.....	34.1	70	−12	2.74	5.7	8	14	7	10
1899.....	34.8	70	−15	4.26	2.6	10	12	8	11
1900.....	38.6	70	12	2.59	0.1	8	13	6	12
1901.....	32.3	72	−22	4.90	5.7	10	8	7	16
1902.....	36.7	72	− 3	7.36	2.4	12	7	5	19
1903.....	30.7	58	0	2.88	2.0	7	16	6	9
1904.....	36.4	72	− 2	4.30	2.4	11	10	5	16
1905.....	37.3	66	11	4.38	1.2	8	11	5	15
1906.....	39.0	76	− 9	5.64	1.6	15	6	4	21
1907.....	38.5	70	8	3.20	1.0	11	8	5	18
1908.....	39.8	74	7	2.42	0.4	9	11	6	14
1909.....	29.9	79	−14	3.46	3.3	9	10	5	16
1910.....	31.1	66	− 3	3.37	6.6	8	11	5	15
1911.....	41.6	74	11	6.25	0.4	12	9	4	18
1912.....	37.2	73	5	3.98	5.2	9	14	5	12
1913.....	39.5	70	11	2.73	1.6	7	10	5	16
1914.....	32.8	70	−16	5.22	7.7	14	6	4	21
1915.....	37.0	64	9	7.56	3.3	12	10	6	15
1916.....	35.5	74	−14	4.23	10.1	10	12	7	12
1917.....	26.5	72	−21	2.01	17.3	8	10	7	14
1918.....	44.8	75	14	4.44	0.7	12	10	6	15
1919.....	34.6	68	3	4.93	1.0	7	12	5	14
1920.....	38.6	68	4	2.89	2.0	9	9	6	16
1921.....	41.7	73	18	4.40	0.1	7	10	6	15
1922.....	41.5	77	5	5.64	0.2	12	10	6	15
1923.....	46.6	75	8	6.60	2.1	14	9	5	17
1924.....	35.9	79	− 9	5.97	1.2	9	13	5	13
1925.....	34.8	70	− 5	0.89	1.7	5	13	6	12
1926.....	37.8	75	5	6.01	0.3	12	8	5	18
1927.....	37.4	77	1	3.37	0.5	10	14	4	13
1928.....	39.5	72	5	2.82	T.	7	17	5	9
1929.....	39.0	76	−15	2.72	6.8	11	10	5	16
1930.....	35.4	69	2	2.21	2.6	8	10	7	14
1931.....	46.1	73	17	5.48	0.0	13	7	5	19
1932.....	37.9	72	− 8	4.32	1.9	12	10	6	15
1933.....	44.2	75	− 5	4.99	1.4	10	9	7	15
1934.....	37.0	69	5	2.18	1.5	9	10	6	15
1935.....	30 0	63	−14	2.39	9.0	9	8	7	16
1936.....	40 5	70	10	4.51	2.0	10	13	5	13
1937.....	35.5	68	0	2.94	2.0	12	7	6	18
1938.....	37.9	67	8	1.85	0.2	7	13	7	11
1939.....	38.8	72	− 2	2.52	6.6	7	13	6	12
Period	37.7	79	−22	3.86	3.0	10	10	6	15

†51 year averages.

Climatological Data for December, 1939.

Stations	Counties	Elevation, feet.	Length of record, years.	Temperature, degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation in inches Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, melted.	Number of days: With precip. 0.01 in. or more.	Clear.	Pt. cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Western Division.																				
Beaver Dam	Ohio	441	27	°38.8	+ 1.7	68°	7†	9°	31	34°	2.01	−1.74	0.56	5.0	6	....	....	....	.....	Eldred G. Yonng.
Calhoun	McLean	437	35	°39.4	+ 0.4	°70	7	7	31	41	2.03	−2.23	0.66	8.0	5	16	5	10	.....	R. C. Bennett.
Earlington	Hopkins	420	45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Brick Southworth.
Fords Ferry, Dam 50	Crittenden	356	10	....	....	....	....	....	....	....	2.21	−0.86	0.90	6.4	11	....	....	....	.....	Lockmaster.
Gilbertsville	Marshall	431	....	....	....	....	....	....	....	....	2.87	.....	1.05	.....	7	....	....	....	.....	Tennessee Valley Authority.
Greenville	Muhlenburg	519	22	39.8	+ 0.6	71	7	7	31	43	2.95	−1.01	0.65	3.0	7	12	16	3	s.	C. R. Lovell.
Hartford (near)	Ohio	640	....	....	....	....	....	....	....	....	2.90	.....	0.82	3.0	8	14	6	11	.....	W. R. Carson. Sr.
Henderson	Henderson	382	17	38.6	....	71	7	8	31	34	2.01	−2.63	0.54	11.0	5	12	13	6	e.	Frank T. Street, Jr
Hopkinsville	Christian	524	43	40.2	+ 1.2	72	10	10	31	38	3.06	−1.82	1.04	2.0	6	21	4	6	s.	W. K. Morris.
Lovelaceville	Ballard	479	10	°39.8	+ 0.6	71*	7	7*	30	40*	2.47	−1.64	1.20	4.0	5	13	7	11	s.	Blaine Malone.
Mayfield	Graves	364	30	42.2	+ 1.8	70	7†	11	30	30	2.90	−1.42	0.89	4.0	7	13	10	8	s.	Mrs. Joe Payne.
Murray	Calloway	412	13	41.7	+ 2.9	69	8	18	31	33	3.53	−1.16	0.93	1.5	5	8	9	14	n.	Pat W. Wear.
Owensboro	Daviess	420	42	36.8	− 0.4	66	10	3	31	36	2.07	−1.67	0.60	7.0	6	10	6	15	nw.	Henry S. Berry.
Owensboro, Dam 46	Daviess	404	11	....	....	....	....	....	....	....	1.86	−1.31	0.59	8.0	7	....	....	....	.....	Lockmaster.
Paducah	McCracken	341	19	38.9	− 0.1	70	7	12	31	41	2.76	−1.43	0.91	3.5	7	10	7	14	.....	U. S. Engineers.
Paducah (near)	McCracken	390	19	41.2	+ 1.6	71	10	10	31	41	2.33	−2.52	0.83	6.5	6	19	2	10	.....	Joe Lagore.
Princeton	Caldwell	529	32	41.0	+ 2.3	72	7	6	31	36	3.13	−1.23	0.82	6.0	7	9	11	11	s.	S. J. Lowry.
Rumsey, Lock 2‡	McLean	384	22	....	....	....	....	....	....	....	2.45	−1.39	0.88	6.0	8	....	....	....	.....	Lockmaster.
Russellville	Logan	590	26	36.4	− 2.4	65	9†	12	25†	35	2.47	−1.51	1.10	.....	6	19	3	9	s.	Wm. Shelton.
Uniontown, Dam 49	Union	357	11	....	....	....	....	....	....	....	1.98	−1.12	1.04	9.2	7	....	....	....	.....	Lockmaster.
Central Division.																				
Addison, Dam 45	Breckinridge	852	11	....	....	....	....	....	....	....	2.12	−1.49	0.48	6.0	7	....	....	....	.....	Lockmaster.
Anchorage	Jefferson	700	39	36.6	+ 1.7	66	7	1	25	41	1.91	−1.95	0.59	11.0	6	14	6	11	sw.	C. E. Barret.
Bowling Green	Warren	500	43	40.9	+ 1.9	69	7	14	31	38	2.98	−1.74	1.03	T.	7	12	9	10	w.	Mrs. Lillie G. Causey.
Brownsville, Lock 6‡	Edmonson	410	22	....	....	....	....	....	....	....	2.81	−1.93	0.90	.....	7	....	....	....	.....	Lockmaster.
Burnside	Pulaski	705	48	....	....	....	....	....	....	....	2.87	−1.88	0.86	T.	8	....	....	....	.....	Sarah E. Lewis.
Carrollton, Lock 1	Carroll	480	40	....	....	....	....	....	....	....	1.27	−1.84	0.40	.....	7	....	....	....	.....	Lockmaster.
Cold Spring, Dam 36	Campbell	489	13	....	....	....	....	....	....	....	1.22	−1.61	0.39	4.5	10	....	....	....	.....	Lockmaster.
Danville	Boyle	955	15	39.4	....	68	13	3	25	45	2.44	−1.40	0.99	8.5	7	13	3	15	sw.	R. P. Coldiron.
Dix Dam, Burgin	Mercer	770	15	40.0	0.0	66	7†	10	25	41	1.60	−2.10	0.82	9.0	6	10	4	17	nw.	Kentucky Utilities Co.
Eadsville	Wayne	622	....	....	....	....	....	....	....	....	2.99	.....	0 90	.....	8	....	....	....	.....	Joe Norfleet.
Eubank	Pulaski	1177	44	38.0	+ 1.0	63	17†	6	25	36	3.09	−1.07	0.99	1.8	6	16	3	12	s.	Mrs. Katie Payne.
Frankfort, Lock 4	Franklin	504	43	38.2	+ 1.3	68	7	2	25	46	1.57	−2.23	0.56	7.0	7	12	2	17	w.	Lockmaster.
Gest, Lock 8	Henry	490	29	....	....	....	....	....	....	....	2.26	−1.53	0.80	14.0	6	....	....	....	.....	Lockmaster.
Glasgow	Barren	760	12	40.4	.....	68	7†	14	22	45	2.76	−2.39	0.93	3.1	8	12	11	8	sw.	L. E. Turner.
Grant, Dam 38	Boone	506	14	....	....	....	....	....	....	....	1.51	−1.09	0.56	.....	7	....	....	....	.....	Lockmaster.
Greensburg	Green	581	46	38 0	+ 0.7	68	7	13	25†	46	2.47	−2.05	0.90	0.3	6	4	2	25	s.	Mrs. Bettie K. H. Alcorn.
High Bridge, Lock 7	Jessamine	544	37	....	....	....	....	....	....	....	2.00	−2.03	0.96	8.8	9	....	....	....	.....	Lockmaster.
Irvington	Breckinridge	646	41	39.0	+ 1.7	65	7†	6	25	35	2.57	−1.96	0.72	9.1	8	9	6	16	sw.	L. O. Stiles.
LaGrange	Oldham	850	....	....	....	....	....	....	....	....	1.96	.....	0.61	10.5	8	14	1	16	sw.	J. C. Ogg.
Lancaster	Garrard	1032	13	....	....	....	....	....	....	....	2.02	−1.14	0.55	.....	6	....	....	....	.....	Kentucky Utilities Co.
Leitchfield	Grayson	635	43	39.4	+ 2.2	68	7	8	31	34	2.57	−2 17	0.90	4.5	8	10	12	9	sw.	H. H. Willis.
Lexington	Fayette	989	55	36.6	+ 0.8	65	7	10	25	38	2.35	−1.42	0.47	11.7	12	12	2	17	.....	U. S. Weather Bureau.
LittleHickman, Lock 8	Jessamine	560	29	....	....	....	....	....	....	....	2.11	−1.57	0.80	12.0	5	....	....	....	.....	Lockmaster.
Lockport, Lock 2	Henry	485	29	....	....	....	....	....	....	....	2.01	−1.64	0.67	7.5	7	....	....	....	.....	Lockmaster.
LOUISVILLE	Jefferson	459	66	38.6	+ 1.0	67	7	9	31	33	2.43	−1.31	0.78	15.0	9	10	5	16	sw.	U. S. Weather Bureau.
Do. Bowman Field	Jefferson	558	1	37.0	.....	66	7	3	25	36	1.87	.....	0.88	11.6	9	....	....	....	.....	U. S. Weather Bureau.
Mammoth Cave	Edmonson	800	4	....	....	....	....	9y	31	.....	2.59	.....	0.96	5.0	6	16	1	14	sw.	Ivan J. Ellsworth.
Monticello	Wayne	910	....	....	....	....	....	....	....	....	4.11	.....	1.13	.....	8	12	6	13	.....	E. O. Cooper
Munfordville	Hart	600	10	....	....	....	....	....	....	....	2 78	−0.30	0.89	0.3	8	....	....	....	.....	Chester Williams.
St. John	Hardin	777	43	36.6	+ 0.9	69	7	2	25	32	2.12	−2.40	0.62	11.0	8	13	7	11	.....	Sisters of Loretto.
Salvisa, Lock 6‡	Mercer	520	24	....	....	....	....	....	....	....	2.34	−2.06	0.91	15.0	7	....	....	....	.....	Lockmaster.
Shelbyville	Shelby	825	46	36.7	+ 1.0	65	7	2	25	37	1.92	−2.26	0.45	9.3	8	11	0	20	sw.	Willa S. Ratta,
Shepherdsville	Bullitt	500	2	....	....	....	....	....	....	....	2.94	.....	1.11	10.5	7	10	11	10	w.	C. W. Cuernsey.
Smith's Grove	Warren	607	1	40.0	.....	69	7	16	22†	35	2.76	.....	0.88	T.	8	....	....	....	.....	Airway Station.
Stearns	McCreary	1400	3	39.6	.....	69	7	19	14	36	4.10	.....	1.36	T.	9	....	....	....	.....	Airway Station.
Taylorsville	Spencer	489	33	37.2	+ 0 8	68	7	7	25	42	2.46	−1.82	0.82	13.2	7	20	5	6	w.	Thad. Cheatham, Sr.
Tyrone, Lock 5‡	Anderson	524	21	....	....	....	....	....	....	....	2.24	−1 85	0 68	12.0	9	....	....	....	.....	Lockmaster.
Williamstown	Grant	943	36	38.0	+ 3.2	65	12	6	31	38	2.10	−1.44	0.65	7.0	10	12	7	12	w.	Miss Nettie B. Simpson.
Woodbury, Lock 4‡	Butler	504	22	....	....	....	....	....	....	....	2.82	−1.40	1.14	T.	8	....	....	....	.....	Lockmaster.
Eastern Division.																				
Annville	Jackson	....	8	36.5	.....	65	9	7	25	46	2.98	.....	0.87	9.7	10	9	8	14	sw.	W. A. Worthington.
Ashland	Boyd	534	22	39.8	+ 1.1	69	7†	16	25	39	1.48	−2.17	0.47	3.2	9	17	4	10	sw.	Lockmaster.
Berea	Madison	1070	36	39.2	+ 1.2	67	7	9	25	40	1.83	−2.43	0.56	10.2	7	12	4	15	sw.	Luther M. Ambrose.
College Hill, Lock 11	Madison	611	29	....	....	....	....	....	....	....	2.43	−1.55	0.80	14.0	8	....	....	....	.....	Lockmaster.
Cumberland	Harlan	1440	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Olon Cook.
Cynthiana	Harrison	684	21	....	....	....	....	....	....	....	1.15	−2.70	0.42	5.5	6	....	....	....	.....	S. M Hill.
Falmouth	Pendleton	600	50	....	....	....	....	....	....	....	1.51	−2.11	0.55	7.0	7	....	....	....	.....	Jessie Oldham.
Farmers	Rowan	668	32	37.0	+ 0.1	61	7†	13	22†	36	2 12	−1.74	0.72	6.2	7	12	4	15	w.	Lucille C. Stamper.
Flemingsburg	Fleming	870	14	....	....	....	....	....	....	....	1.62	−1.78	0.60	.....	7	....	....	....	.....	C. A. Glascock
Ford, Lock 10‡	Clark	593	23	....	....	....	....	....	....	....	2.16	−1.56	0.70	8.0	8	....	....	....	.....	Lockmaster.
Grayson	Carter	589	8	....	....	....	....	....	....	....	1.25	−1.49	0.45	6.0	5	....	....	....	.....	Mrs. Ruby A. Burton.
Greenup, Dam 30	Greenup	540	19	....	....	....	....	....	....	....	1.51	−1.78	0 39	3.5	11	....	....	....	.....	Lockmaster.
Hazard	Perry	869	15	....	....	....	....	....	....	....	2.59	−2.13	0.85	6.0	9	....	....	....	.....	H. A. Baily.
Heidelberg, Lock 14	Lee	663	4	39.2	.....	69	7	− 2	25	37	2.54	−1.12	0.84	9.0	9	15	2	14	sw.	Lockmaster.
Jackson	Breathitt	776	15	....	....	....	....	....	....	....	3.38	.....	1.25	8.0	5	....	....	....	.....	Jas. T. Goff.
Jenkins	Letcher	1566	13	....	....	....	....	....	....	....	2 61	−1 07	0.58	5.5	9	....	....	....	.....	R. J. Howard.
Louisa	Lawrence	584	36	....	....	....	....	....	....	....	2.29	−1.35	0.71	4.0	8	....	....	....	.....	Zeb Ilesion.
Maysville, Dam 33	Mason	524	41	38.9	+ 3.6	66	12	12	31	42	1.54	−2.19	0.58	6.6	8	6	13	12	sw.	Lockmaster.
Middlesboro	Bell	1128	40	39.8	+ 0.8	67	7	16	25	36	2.48	−2.51	0.55	6.0	12	....	....	....	.....	Matthew Woodson
Mount Sterling	Montgomery	930	46	°37.8	+ 2.2	62d	12	7‡	25	34d	....	.....	....	13.0	....	....	....	....	.....	W. R. McKee.
Oneida	Clay	800	2	....	....	....	....	....	....	....	2.49	.....	0.97	5.0	4	....	....	....	.....	Garret Combs.
Onconta, Dam 35‡	Campbell	497	17	....	....	....	....	....	....	....	1.17	−2.24	0.36	5.2	5	..	..	....	.....	Lockmaster.
Palmtsville	Johnson	620	5	....	....	....	....	....	....	....	1.86	....	0.64	5.0	7	....	....	....	.....	L. L. Donta.
Pikeville	Pike	636	3	38.8	.....	67	7	6	25	40	2.49	−1.03	0.68	7.0	12	....	....	....	.....	U. S Weather Bureau.
Pippapass	Knott	1035	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	Caney Run Com. Cen.
Quicksand	Breathitt	732	13	....	....	....	....	− 2	25	.....	2.50	−1.55	0.91	6.0	5	..	..	....	.....	R. W. Jones.
Ravenna, Lock 12	Estill	631	20	....	....	....	....	....	....	....	2.18	−1.23	0.63	8 5	8	....	....	....	.....	Lockmaster.
Richmond	Madison	926	42	39.2	+ 1.0	65	7	10	25	33	1.65	−2.57	0.50	8.0	7	11	12	8	.....	I. W. Crooke.
Valley View, Lock 9	Madison	571	26	....	....	....	....	....	....	....	2.43	−1.48	1.30	12.5	6	....	....	....	.....	Lockmaster.
Vanceburg, Dam 32	Lewis	525	22	....	....	....	....	....	....	....	1.58	−2.27	0.54	4.5	9	....	....	....	.....	Lockmaster.
Williamsburg	Whitley	939	42	41.0	+ 0.3	72	10	12	14†	42	2.66	−1.43	0.98	T.	7	15	8	8	.....	Wadcly West.
Willow, Lock 13	Lee	646	19	....	....	....	....	....	....	....	2.80	−1.70	0.76	10.5	8	....	....	....	.....	Lockmaster.
Winchester	Clark	964	2	37.6	.....	65	7	7	25	34	1.97	....	0.55	8.0	12	....	....	....	.....	Airway Station.
State averages and extremes		.....	.....	38.8	+ 1.1	72	7†	− 2	25	46	2.32	−1.54	1.36	6.6	7	13	6	12	sw.	

All temperature data are taken from self-registering thermometers.
The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.
‡Rumsey, Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River
Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.
† Also on other dates. †† Received too late to be included in means and summaries. T Precipitation is less than 0.01 inch rain or melted snow

Daily Precipitation for December, 1939.

Stations	Day of month																													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Western Division																																
Beaver Dam G.													.22						.38				.37	.66		.01	.47		T			2.01
Calhoun G.	.66												.18						.35				.26	.59		T						2.03
Carlington G.																																
Fords Ferry Dam 50[3] O.	.45	.04	.03										.10				.01		.10	.02			.05	.90			.50	T	T	.01		2.21
Gilbertsville[2] T.	.50	.03											.17						.27				.19	1.05		T	.66					2.87
Greenville G.	.60									.27					T				.48				.25	.65		.09	.61					2.95
Hartford G.	.68	.04											.22						.42				.24	.82		.03	.45		T			2.90
Henderson O.										.30			.22		T								.48	.47			.54					2.01
Hopkinsville C.	.81	.05											.27							.24				1.04			.65					3.06
Lovelaceville M.	.25												.12						.25				1.20			.65						2.47
Mayfield M.	.60												.14						.39				.89	.32		.16	.40					2.90
Murray T.	.90	T.																T.	.86			T.	.93			.43	.47					3.53
Owensboro O.	.39	T.	T.										.33		T				.16				.60	.20			.59		T.			2.07
Owensboro, Dam 46 [3] O.	.25	.28	T.										.23							.25				.59			.25		T.	.01		1.86
Paducah[2] O.	.46	.02	T.										.12			T.			.24				.17	.91			.84	T.	T.	T.		2.76
Paducah (near)[‡] O.	.46												.16						.22				.34			.83	.32					2.33
Princeton G.	.74	T.											.14						.30				.42	.82		.16	.55					3.18
Rumsey, Lock No. 2 [3] G.	.27	.22	.04							T.			.17				.01	T.		.30			T	.88			.54	T.		T.		2.43
Russellville [3] G.		.12	.21										.28							.08				1.10			.68					2.47
Uniontown Dam 49[3] O.	.26	.06											.12						T.				.01	1.04			.47		T.	.02		1.98
Central Division																																
Addison, Dam 45. [3] O.	.16	.45	.02										.25					T.	T.	.42			.48				.34	T.	T.		T	2.12
Anchorage O.	.23	.11	T.										.25						.15				T	.53			.59					1.91
Bowling Green G.	.60	.05											.30					.10					1.03			.88	.02	T.			2.98
Bowling Green No. 2[1] G.	.51	.12	.10										.33						T.	.10				.90		T.	.93	T.	T.	T.		2.99
Brownsville, Lock No. 6[2] G.	.39	.18	.06										.32							.11				.90			.85					2.81
Burnside[2] C.	.07	.13	.09										.33							.81	T.			.86			.52	.06	T.			2.87
Carrollton Lock No. 1[3] K.		.40	.04		.05								.25							.18			.03				.32					1.27
Cold Spring, Dam 36[2] O.	T.	.39	.10	.01	.01								.28	.02						.10	.01	T.					.26	.04		T.	T.	1.22
Danville[2] K.	.04	.12	.19	T									.39	T.			T.	T.	T.	.23				.99			.48	T.		T.	T.	2.44
Dix Dam, Burgin K.	.12	.11	T.									.40	T.							T.	F.			.82			.10		T.		.05	1.60
Eadsville [2] C.	.10	.10	.08										.60							.64				.90			.65	.02				2.99
Eubank C.	.09	.45											.47							.49				.99			.60					3.09
Frankfort, Lock No. 4[2] K.	.02	.31	.02	T.	T.								.25	T.			T.		T.	.07	T.			.31			.56	T.	T.	T.	T	1.57
Gest, Lock No. 3 [3] K.		.45	.06										.35						T.					.83			.59					2.26
Glasgow G.	.21	.16	.06										.33							.21				.93			.85	.01				2.76
Grant, Dam 83[2] O.		.40	.02		.01							.20	.20	T.						.12				T.		.56		T		T.		1.51
Greensburg G.		.40	.02	.11									.40											.90			.73	T.	T.			2.47
High Bridge, Lock No. 7[2] K.	.05	.07	.10	T.	.03								.30							.12				.96			.83	.62		T.		2.00
Irvington O.	.72	.05											.27						.24	T	T.		.25	.51		T	.52		.01		T.	2.57
LaGrange O.	.37	.25					.02					.26	T.					T.	.15	.08	T.			.27			.61		T		T.	1.96
Lancaster[2] K.	.15												.50						.24					.55			.53				.05	2.02
Leitchfield [2] K.	.22	.32	.02										.33				T.			.10				.90			.65	.03				2.57
Lexington [‡] K.	.20	.09	.03	T.	.03								.31				T.		.17	T.	T.		.47	.36		.42	.22	.01	T.		.04	2.35
Little Hickman, Lock No. 8 [2][‡] K.		.26	.10										.40	T.										.80			.55					2.11
Lockport, Lock No. 2 [2] K.	.04	.49	T.		.08					T.			.34				T.	T.	T.	.11				.31			.07				T.	2.04
LOUISVILLE[1][‡] O.	.49	.07	T.									.04	.15						T.	.27	T.	T.		.71	.07		.40	.23		T.	T.	T.	2.43
Do. Bowman Field O.	.38	.09	T.									.05	.19						T.	.16	T.		.55	.06		.25	.14			T.	T.	1.87
Mammoth Cave[2] G.	.44	.02											.28							.08				.06			.81					2.59
Monticello [3] C.	.50	.30		.05									.43				.87			1.13							.70	.13				4.11
Munfordville [2] G.	.15	.44	.06										.32							.07				.89			.82	T.		.03		2.78
St. John S.	.52	.04											.22	T.					.11				.12	.48			.40	.23	T.			2.12
Salvisa, Lock No 6 [2][‡] K.	.04	.27	.02										.38	T.			T.		T.	.04				.91			.68	T.				2.34
Shelbyville S.	.18	.13	T.		.03								.42						.18	T.	T.			.26			.45		T.		.02	1.92
Shepherdsville S.	.44	.07	T.										.30						.16				.10	1.11			.76				T.	2.94
Smith's Grove G.	.21	.37	.01										.28							.15				.84			.88	.02	T.			2.76
Stearns C.	.04	.32	.07										.41							1.32			.05	1.36			.55	.02		.01		4.10
Taylorsville S.	.20	.40											.30						.19					.82			.50					2.46
Tyrone, Lock No. 5 [2][‡] K.	.05	.32	.10		.03								.42	T.			T		T	.09	T.			.50			.68	.03		T.	.02	2.24
Williamstown L.	.10	.60	.03	.05	.08								.35					.03	.09					.12			.65					2.10
Woodbury, Lock No. 4[2] G.	.39	.22											.21					T	.09	.14				1.14			.62	.01				2.82
Eastern Division																																
Annville [2] C.	.10	.12	.13	T									.23						.88	.12			.17	.87			.33	.03	T.		T.	2.98
Ashland [2] O.	.03	.02	.20							.06			.14	.14						.47							.40	.02				1.48
Berea K.	.09	.06	.03										T						.50	T.			.11	.56			.48		T.	T.		1.83
College Hill, Lock No. 11[2] K.	.03	.12	.12										.40						.02	.38				.80			.56					2.43
Cumberland C.																																
Cynthiana [2] K.		.42	.13										T.							.05			.20			.80					.05	1.15
Falmouth [2] L.	T.	.50	.05	T.	.02								.27	T.		T.	T.		T	.11				.23			.55				.01	1.51
Farmers [2] L.	.04	.37	T.		.05								.35						.36					.08			.72					2.12
Flemingsburg [2] L.	.04	.19	.14											.38						.19				.06			.60					1.62
Ford, Lock No. 10 [2][‡] K.	.05	.09	.26	T.	.03								.37	T						.20	T.	T.		.70			.46	T.		T.	T.	2.16
Grayson [2] O.			.20										.30							.45				.10			.20					1.25
Greenup, Dam 30[2] O.		.07	.39	T.						.02			.11	.11		.02				.39							.30	.08		T.	.02	1.51
Hazard [2] K.	.02	.04	.28										.33	.10						.65				.85			.27	.05				2.59
Heidelberg, Lock No. 14[2] K.	T.	.13	.02		T.	.01							.40	.02						.84	T.			.73			.36				.03	2.54
Jackson [2] K.		.10			T.								.45							.78	T.			.80				1.25				3.38
Jenkins [2] K.		.07	.29	.11							.03		.33	.14						.79				.58			.27					2.61
Louisa [2] B.		.09	.22	.02									.12	.11						.71				.40	.22		.46					2.29
Maysville, Dam 33[2] O.	.01	.16	.29	T.	T.	.02					T.		.27	T.						.16	T.	T.		.55			.58	.05		T.	T.	1.54
Middlesboro C.	.21	.08	.07							.07			.30						.07	.39			.16	.55		.05	.51	.02				2.48
Mount Sterling L.																																
Oneida [2][‡] K.			.13										.47							.92					.97							2.49
Omeuta Dam 35[2] O.	T	.32	.12	T.	T.								.23	T.		T.				.14	T.			T.			.36	T.	T.	T.	T.	1.17
Paintsville [2] B.			.09		T.								.35	.10						.53				.64			.10	.05	T.	T.	T.	1.86
Pikeville B.	T.	.03	.19	.01	.02	.01						T.	T.	.29	.36			T.		.66	.02		.68			.16	.06		T.	T.	T.	2.49
Pippapass K.																																
Quicksand [2] K.			.29		T.								.40							.91				.40			.50					2.50
Ravenna, Lock No. 12[2] K.	.06	T.	.11	T.	.10								.35	T.						.55	T.			.68			.27	.11		T.		2.18
Richmond K.		.20	.05										.25	.05						.30				.60			.20					1.65
Valley View, Lock No. 9[2] K.	.05	.15		T.									.30							.18				1.30			.45	T.		T.		2.43
Vanceburg, Dam No. 32 [2] O.		.16	.21	.02							.01		.38	.02						.14							.54	.05				1.53
Williamsburg[2] C.		.27	.12										.36							.46			.04	.98			.43					2.66
Willow, Lock No. 13[2] K.	.06	.05	.04		.06								.35							.76				.64			.34	T.				2.30
Winchester K.	.04	.12	.51	.03	.02								.32				.01		.01	.19				.15			.55	.02		T.	T.	1.97

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at time of observation.
[1]First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight unless otherwise indicated. [2]Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. [3]Included in the next following measurement
‡Precipitation measured with recording gage.
T. Trace, or precipitation less than 0.01 inch.
†Post office addresses as follows:—Lock 5, Lawrenceburg, Ky.; Lock 6, Versailles, Ky.; Lock 8, Nicholasville Ky.; Lock 10, Red House Ky.; Oneonta, California, Ky.
River drainage area in which station is located is indicated as follows: (B) Big Sandy (L) Licking; (K) Kentucky; (S) Salt; (G) Green; (C) Cumberland; (T) Tennessee; (O) Ohio; (M) Mississippi.

Daily Temperatures for December, 1939.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Western Division.																																	
Beaver Dam	Maximum	..	..	..	..	..	68	68	65	65	68	62	65	63	48	51	62	62	63	58	45	33	39	36	38	41	42	37	32	32	38	37	°49.9
	Minimum	..	..	..	..	..	26	37	25	23	42	26	31	29	17	28	45	43	38	44	30	23	13	28	30	17	30	30	21	26	18	9	°27.6
Calhoun	Maximum	64	49	43	41	56	60	70	58	66	69	63	64	62	58	48	60	64	..	64	49	38	40	39	38	42	41	37	36	34	38	37	*50.6
	Minimum	43	36	30	24	31	28	34	28	24	45	30	31	31	18	30	36	43	..	36	26	24	15	31	27	17	35	22	20	25	15	7	*28.1
Earlington	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Greenville	Maximum	55	50	45	47	59	62	71	63	67	70	64	64	62	51	51	62	65	64	69	49	38	38	36	37	42	40	36	32	32	38	35	51.1
	Minimum	42	36	33	19	30	27	39	27	24	47	29	28	32	15	26	43	45	43	45	28	20	12	28	29	16	29	28	21	24	13	7	28.5
Henderson	Maximum	55	58	42	41	60	62	71	67	66	70	64	64	45	52	49	56	64	65	58	42	35	41	35	37	41	38	31	34	34	37	35	49.3
	Minimum	42	40	30	21	32	29	40	27	32	40	27	32	26	19	30	42	42	44	40	25	22	13	32	27	7	27	28	18	24	18	3	28.0
Hopkinsville	Maximum	55	50	46	48	59	63	70	59	69	72	64	65	50	53	53	60	64	65	66	46	38	42	40	37	43	42	33	31	32	40	32	51.2
	Minimum	43	42	34	21	28	26	26	33	26	34	30	30	33	18	29	43	41	39	47	29	19	16	31	31	21	32	29	25	27	14	10	29.3
Lovelaceville	Maximum	55	51	45	48	58	64	65	71	67	67	68	66	63	61	53	50	48	61	67	64	46	37	38	38	40	..	37	33	32	28	38	*61.0
	Minimum	44	40	29	19	27	26	37	30	27	47	29	32	33	17	30	35	46	43	28	18	16	32	22	20	..	32	29	26	25	7	9	*28.5
Mayfield	Maximum	65	52	45	49	58	65	70	63	68	70	64	65	63	53	51	53	62	66	61	49	44	38	40	40	41	38	33	32	30	38	32	51.8
	Minimum	45	40	31	25	33	35	44	34	37	50	33	39	35	24	36	42	48	49	46	29	26	21	32	33	23	33	28	23	20	12	13	33.1
Murray	Maximum	58	60	46	48	57	66	68	69	68	69	68	64	61	64	51	52	63	65	69	46	41	37	40	39	41	39	34	33	31	40	30	51.2
	Minimum	43	38	30	26	35	34	46	46	36	35	33	32	34	24	34	34	44	48	45	31	25	21	32	25	22	33	30	28	26	20	18	32.2
Owensboro	Maximum	64	53	48	37	56	57	63	52	64	66	50	62	55	47	47	58	58	62	55	50	32	40	37	32	38	39	36	39	32	35	30	46.9
	Minimum	40	41	32	23	30	27	27	27	26	42	27	29	29	18	29	37	37	38	44	28	19	14	30	26	9	26	27	14	19	11	3	26.7
Paducah	Maximum	62	45	48	48	59	66	70	53	68	69	54	64	42	56	51	62	64	67	54	46	35	37	38	38	42	38	32	28	32	28	22	48.3
	Minimum	43	42	32	22	24	30	32	36	27	34	34	34	34	20	20	36	40	40	47	30	26	20	26	32	22	22	30	26	26	14	12	29.5
Paducah (near)	Maximum	53	49	48	49	61	66	74	57	70	71	60	65	62	55	51	53	62	67	60	49	39	41	38	39	45	38	35	31	30	38	34	51.3
	Minimum	45	41	29	22	31	31	45	29	29	50	29	36	31	19	35	38	48	39	43	28	24	17	33	32	19	32	30	26	25	15	10	31.1
Princeton	Maximum	54	50	48	48	57	64	72	56	68	70	55	63	62	53	51	58	64	65	61	49	40	41	38	37	43	39	36	31	31	37	34	50.5
	Minimum	44	37	34	24	33	31	44	33	32	49	31	35	33	19	34	43	48	45	47	29	21	16	32	30	18	31	29	24	25	15	6	31.4
Russellville§§	Maximum	49	45	44	37	53	48	51	50	65	65	49	58	89	47	56	57	58	60	57	43	31	33	33	35	36	37	32	30	30	22	12	44.0
	Minimum	42	43	34	22	25	30	31	29	30	32	30	31	34	23	21	32	46	42	50	39	24	13	17	30	12	23	30	26	26	17	12	28.9
Central Division.																																	
Anchorage	Maximum	53	52	36	34	51	52	66	54	63	64	60	65	60	47	48	61	60	59	69	41	33	40	34	39	40	38	32	29	32	36	34	47.2
	Minimum	42	35	31	29	25	24	31	22	21	42	28	26	30	17	23	43	39	36	39	31	24	13	22	11	1	22	29	23	22	21	6	26.1
Bowling Green	Maximum	56	53	42	46	55	57	69	63	64	68	61	65	60	45	63	62	62	60	48	39	39	39	39	40	42	40	33	33	33	40	46	50.4
	Minimum	34	40	35	28	34	33	35	34	26	35	34	30	32	22	46	47	42	48	32	25	18	29	28	31	20	32	33	27	29	21	14	31.4
Danville	Maximum	57	54	42	39	55	54	67	61	67	64	61	67	68	43	48	61	62	60	63	48	37	48	36	37	38	37	39	37	34	36	31	49.9
	Minimum	40	39	32	32	28	34	34	29	20	46	31	28	31	22	19	43	47	37	44	31	24	18	24	24	3	28	30	26	23	21	14	28.8
Dix Dam	Maximum	65	55	55	36	56	53	66	61	64	63	58	58	60	42	47	60	61	59	61	47	37	41	37	35	39	34	37	33	36	36	39	49 3
	Minimum	43	41	34	35	31	35	33	28	23	48	37	28	33	23	23	45	42	33	47	37	25	18	26	28	10	26	32	27	25	22	14	30.7
Eubank	Maximum	54	56	49	54	59	61	57	56	57	68	58	54	46	57	57	59	63	63	59	48	42	42	35	35	42	40	38	34	30	36	34	49.4
	Minimum	33	38	31	29	31	29	26	26	18	30	32	25	30	26	32	32	42	32	33	24	15	19	22	6	18	30	28	24	21	14	26 6
Frankfort	Maximum	55	53	41	36	53	54	68	62	64	65	60	67	61	44	48	62	64	60	59	45	38	42	37	37	43	39	37	30	34	35	21	48.5
	Minimum	42	41	31	33	30	28	27	23	18	46	33	25	30	20	20	40	48	30	45	33	24	15	20	27	2	23	30	23	21	21	11	27.8
Glasgow	Maximum	56	56	41	43	54	57	68	68	64	67	63	66	62	48	53	60	61	64	60	48	42	39	40	39	44	42	38	34	31	37	38	61.1
	Minimum	41	40	35	25	28	24	31	23	21	47	27	27	35	17	23	47	49	36	46	32	24	14	28	30	18	31	32	28	26	21	17	29.8
Greensburg	Maximum	58	55	47	38	44	56	68	61	62	65	64	67	60	45	51	61	62	69	59	46	40	39	37	37	42	42	37	33	31	38	36	49.5
	Minimum	40	37	32	20	27	25	24	22	16	43	27	22	31	14	20	45	42	28	42	32	19	11	26	27	13	27	24	25	25	20	13	26.6
Irvington	Maximum	65	50	38	37	52	53	65	53	62	65	55	53	59	44	52	61	61	61	59	43	34	40	36	36	39	40	35	38	36	37	36	48 2
	Minimum	44	35	33	30	32	32	38	29	27	46	32	34	29	21	31	44	45	42	42	31	24	16	30	26	6	26	29	21	24	21	7	29.9
Leitchfield	Maximum	54	50	38	48	54	57	68	57	64	67	61	63	60	42	51	63	63	60	58	45	33	40	34	34	39	38	38	33	31	37	34	48.7
	Minimum	43	37	33	28	30	31	38	31	30	44	29	31	31	20	30	44	45	40	45	31	22	14	29	28	13	28	29	23	26	19	8	80.0
Lexington	Maximum	53	49	34	41	51	53	65	61	61	66	64	55	40	48	58	60	58	59	60	29	39	35	33	37	38	34	29	30	33	21	45.0
	Minimum	41	34	32	31	30	29	35	28	28	40	30	30	28	21	26	41	41	40	36	27	21	17	27	15	10	26	29	23	22	20	12	28.2
Louisville	Maximum	53	50	36	36	51	53	67	52	63	65	47	65	45	42	51	61	61	58	60	40	31	40	39	38	40	39	31	28	32	35	23	46.0
	Minimum	44	35	33	32	33	37	41	35	30	44	35	32	28	25	31	47	45	42	40	29	25	22	29	20	14	30	28	23	25	23	9	31.2
Do. Bowman Field	Maximum	53	47	37	36	51	53	66	53	62	65	46	65	40	47	49	62	61	58	60	40	30	40	37	32	39	36	31	26	32	35	23	45.4
	Minimum	42	35	32	31	32	28	39	27	26	48	35	30	25	20	27	46	42	41	40	28	25	17	26	8	3	25	28	22	25	22	8	28.5
Mammoth Cave	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	33	34	35	32	20	.....
	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	25	27	24	23	9	.....
St. John	Maximum	61	50	37	35	49	60	69	58	56	58	68	68	58	45	49	57	56	56	68	47	33	33	32	32	28	38	37	30	29	34	16	45.1
	Minimum	41	37	37	31	28	29	31	26	21	44	29	29	45	40	24	43	44	32	41	32	21	12	25	23	2	22	17	20	20	19	6	28.1
Shelbyville	Maximum	52	51	40	34	52	52	65	59	61	63	60	63	59	41	43	60	60	57	66	49	34	39	35	35	35	37	35	30	30	32	33	46.8
	Minimum	40	38	29	30	28	28	32	24	24	40	29	27	29	18	24	40	42	35	43	31	21	14	23	24	2	20	28	20	20	19	4	26.6
Smith's Grove	Maximum	57	51	39	43	54	57	69	56	62	68	53	63	39	47	52	61	62	61	62	36	39	38	38	45	39	33	32	31	39	26	48.4
	Minimum	44	42	35	26	33	31	34	32	24	43	32	30	38	18	26	47	48	41	52	32	23	16	28	31	19	31	32	28	26	20	16	31.5
Stearns	Maximum	53	44	42	36	58	55	69	51	67	63	50	53	40	43	50	52	63	64	62	44	41	36	35	36	41	40	36	31	30	38	32	47.3
	Minimum	44	42	32	32	29	33	32	35	25	43	33	27	38	19	21	48	44	38	52	35	24	20	28	29	20	29	30	25	29	26	25	24	31.8
Taylorsville	Maximum	65	51	48	41	54	55	68	57	62	65	54	59	45	50	62	55	59	58	46	35	42	38	36	42	47	47	38	32	36	35	49.2
	Minimum	41	31	32	30	29	26	25	21	20	17	24	23	25	19	20	43	46	24	42	32	19	20	18	20	13	33	32	28	25	24	25.8
Williamstown	Maximum	53	50	42	35	49	50	60	53	58	59	60	59	49	41	59	60	55	57	47	38	40	36	36	42	39	36	30	32	32	34	46.8
	Minimum	39	35	30	32	30	30	38	29	29	47	36	27	30	22	23	39	46	44	45	30	23	17	25	24	15	26	28	24	21	20	6	29.3
Eastern Division.																																	
Annville	Maximum	64	51	37	35	57	54	62	55	65	63	59	65	58	41	47	56	63	63	62	46	37	38	35	37	43	39	37	32	31	36	33	48.4
	Minimum	37	35	33	32	27	22	20	20	14	20	27	19	30	15	14	42	35	25	43	31	25	11	21	13	7	20	30	28	25	18	12	24.6
Ashland	Maximum	69	49	37	37	50	56	69	62	61	62	59	64	57	47	40	60	60	69	59	46	40	44	43	41	48	39	38	38	35	34	35	49.0
	Minimum	44	43	34	34	33	31	30	29	22	37	37	22	32	30	20	35	55	33	40	35	29	22	21	24	16	23	31	31	27	26	19	30.5
Berea	Maximum	55	55	43	54	55	58	67	65	63	63	62	65	62	40	45	57	62	61	61	44	34	37	36	34	29	40	39	33	31	35	34	48.8
	Minimum	46	42	32	29	32	35	29	32	26	49	35	25	32	21	19	35	49	43	42	32	24	16	24	15	9	26	31	27	23	23	11	29.6
Cumberland	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Farmers	Maximum	55	55	42	34	49	49	61	61	59	60	60	69	59	36	41	56	55	59	59	47	37	36	36	36	35	36	32	32	30	34	34	46.2
	Minimum	42	42	33	32	29	27	24	21	16	32	33	28	32	27	18	38	50	30	37	36	26	13	18	27	13	19	30	28	24	20	17	27.8
Heidelberg	Maximum	55	55	45	37	56	56	69	61	65	64	62	66	59	44	50	58	64	65	64	52	40	45	40	38	35	40	39	35	33	37	35	50.5
	Minimum	39	44	35	35	30	29	29	27	16	30	41	31	35	21	18	35	36	28	38	31	21	15	21	24	2	26	32	33	27	28	23	27.9
Maysville	Maximum	54	54	39	37	50	52	65	59	62	60	56	66	56	39	47	59	61	57	63	48	34	40	37	37	47	39	36	33	31	33	33	48.0
	Minimum	43	41	34	34	32	29	29	27	20	39	37	24	33	29	20	40	49	34	46	33	27	19	21	29	16	24	30	27	24	24	12	29.8
Middlesboro	Maximum	50	50	41	38	52	54	67	59	58	63	68	57	54	41	46	50	64	57	64	56	42	42	39	39	42	42	43	40	36	37	35	49 1
	Minimum	40	36	34	33	28	29	23	27	18	27	37	22	34	19	24	46	46	38	42	37	30	18	30	31	16	30	36	34	30	27	28	30.6
Mount Sterling	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	°46.9
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	°28.7
Pikeville	Maximum	61	61	39	37	54	55	67	51	52	66	45	59	47	35	48	55	63	62	69	44	41	35	36	34	27	39	41	37	35	37	31	46 9
	Minimum	40	41	37	35	30	36	27	30	21	30	45	24	35	31	20	36	40	31	37	41	33	22	22	30	6	22	33	34	32	29	25	30.8
Pippapass	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
Quicksand	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
	Minimum	36	37	32	31	27	27	21	23	15	27	28	19	30	20	16	40	38	26	36	29	24	14	19	26	– 2	19	30	30	25	25	19	25.4
Richmond	Maximum	55	48	45	40	50	55	65	54	63	63	53	63	42	42	45	55	60	50	60	42	33	42	40	42	40	36	40	33	34	34	34	46.7
	Minimum	45	43	32	32	30	32	40	32	32	48	36	30	36	22	27	40	46	44	50	36	26	18	25	26	10	26	28	27	24	22	15	31.6
Williamsburg	Maximum	54	59	60	60	58	60	61	67	58	72	57	58	51	55	54	55	61	67	68	59	56	59	41	38	39	52	45	46	36	41	46	54.3
	Minimum	29	28	29	26	27	26	29	30	17	34	37	22	14	12	12	41	42	28	39	37	28	26	27	22	25	27	26	30	31	32	28	27 7
Winchester	Maximum	54	49	46	35	52	52	65	58	61	62	46	63	41	39	29	58	60	54	60	49	35	40	36	32	37	36	34	30	29	33	22	45 0
	Minimum	42	46	32	32	30	31	36	28	25	43	35	28	36	24	28	42	42	40	49	35	24	17	25	25	7	23	30	26	23	22	12	30.1

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs
,,* etc. indicate respectively 1, 2, 3 etc., days missing from record.

W B O Louisville. 1-26 40 1100

F105
NIKE
49
V0.13

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CLIMATOLOGICAL DATA.

13 KENTUCKY SECTION.

J. L. KENDALL.

VOL. XLIV LOUISVILLE, KY., ANNUAL, 1939 No. 13

GENERAL SUMMARY.

Weather much warmer than normal early in January started untimely expansion of buds and growth of winter grains. Unseasonable warmth predominated in February and March, causing further advancement of fruit to a stage that endangered its safety. Brief periods of sharp cold in these months checked the premature development of vegetation. Grains had entered the winter undersized, therefore the growth caused by the prevailing warmth improved their general condition but did not advance them to the extent that the freezes would cause injury. Some winter plowing was accomplished early in January, after which wet weather prevented any progress of consequence with this work. The heavy and persistent rains continued through April and greatly delayed all phases of farm activity. The abnormally low temperature of this month, in connection with the wet weather, retarded gardening and spring growth. Flooding of bottom lands in the western part of the State interfered seriously with plowing and planting of these areas. The dry weather of May was opportune at first in allowing plowing and planting to go forward, Toward the end, however, the drying and hardening soil began to impede the growth of some crops and the late preparations for planting. Too much rain in June and in the eastern counties in July adversely affected cultivation of crops, haymaking and harvest. Seasonal temperatures favored all growth. Except for excessive rains that damaged tobacco and soybeans in the Burley district and weather too dry for the staple crops in the southwestern counties, the month of August was generally favorable. In central and eastern sections pastures continued good to luxuriant throughout the summer. Very dry and decidedly warm weather in September caused early maturity and complete ripening of crops, but it brought all late growth to a standstill by the end of the month. Dry weather in October hampered plowing and seeding, prevented germination of grains, and developed water shortage. Temperatures much above normal advanced the curing of tobacco and drying of corn, but practically ruined late potatoes and pastures. November and December continued dry, with much inconvenience from shortage of water for livestock. Light showers furnished barely enough moisture to sustain the growth of grains and maintain meager water supplies. Grain that came up in November started very slowly because of low temperatures, but abnormal warmth in December caused some growth. Although small in size, the continued slow development brought the grains to vigorous condition before the dormant state was reached late in December. Winter plowing and other outdoor work advanced almost without hindrance from the weather. The prevailing dryness delayed tobacco stripping, which was possible only in the brief shower periods.

The Weather By Months.

January.—Frequent freezing and thawing in the last three weeks injured winter grains on the heavier soils. The periods of rain favored handling tobacco. Heavy rains late in the month caused the first sharp rise in the streams of the State.

February.—Temperatures fluctuated widely in short periods from far above to considerably below normal. The heavy rainfall packed the land that had been plowed earlier in the winter and caused extensive flooding of bottom lands. Very little could be done in sowing tobacco plant beds.

March.—Most plant beds were sown in the second and third weeks, when precipitation was light to moderate. Flooding of lowlands increased, while uplands remained generally too wet to be plowed Peach, plum and pear trees, also strawberries, began to bloom in western districts toward the end.

April.—Fruit buds that had opened were largely destroyed by the freezes of the first half. Tobacco plants were backward in coming up and grew very slowly until late in the month. The oats crop was much reduced because wet weather prevented sowing. Crop development was about two weeks late.

May.—The delayed soil conditioning extended the period of corn planting. Dry weather prevented tobacco setting in the hilly sections. High temperatures in the last two weeks brought up corn and cotton with unusual promptness causing rapid growth.

June.—Rains in the first week enabled tobacco farmers in hilly districts to transplant. The rainfall was less and farm progress better in the cotton district and extreme western counties. Corn grew rapidly but suffered from weediness. Excellent stands of tobacco were obtained.

July.—Floods along creeks caused extensive damage and loss of life in the mountain counties. Southwest of the lower Green the weather was too dry and corn began to deteriorate. Temperature and soil conditions were generally favorable for planting late potatoes.

August.—Cutting tobacco began in the burley district near the end of the first decade. High humidity delayed preliminary curing. Fair weather late in the month favored cutting and curing tobacco and stopped the damage to tomatoes. Pastures varied from luxuriance in the east to poor conditions in the southwest.

September.—Late potatoes grew slowly to the stage of setting tubers but made little further progress. Tobacco cured more rapidly than desirable. The weather was ideal for making late hay. Corn dried sufficiently to be gathered. Dry soil hindered preparations for seeding toward the end.

October.—Stimulated by light showers, much grain came up feebly and died as the moisture disappeared under the influence of mid-summer heat. Plants that survived made little growth. Water shortage developed in upland sections. Pastures dried up early in the month.

November.—Stands of grain improved as more seed germinated, following the light showers. Seeding continued during the first two weeks. Corn gathering advanced practically to completion, and the grain was cribbed unusually dry. Water supplies improved somewhat toward the end.

December.—Grains made no growth of consequence after the 20th, Because of the unsaturated condition of the soil, freezes caused no injury. Except tobacco stripping, fall and early winter work was generally ahead of its usual stage.

COMPARATIVE ANNUAL DATA FOR KENTUCKY,

Year.	Temperature.			Precipitation		Number of days			
	Mean.	Highest.	Lowest.	Average	Average snowfall	Precipitation .01 inch or more	Clear.	Partly cloudy.	Cloudy.
1889	55.6	101	3	35.97	....	...	...	...	...
1890	57.1	101	4	58.82	....	...	...	...	...
1891	56.3	105	0	49.69	....	...	...	...	...
1892	55.3	101	− 6	44.25	....	...	...	...	...
1893	55.5	101	−22	44.71	....	...	...	...	...
1894	57.1	105	−12	34.81	....	...	...	...	...
1895	55.0	104	−18	38.47	....	...	156	105	104
1896	57.6	106	−12	44.68	....	94	151	111	104
1897	57.2	107	−16	46.72	8.1	111	168	97	100
1898	57.2	103	−12	52.38	12.5	103	153	110	102
1899	56.4	105	−30	46.38	24.6	112	157	103	105
1900	57.7	104	− 9	44.40	12.9	110	163	104	98
1901	55.3	112	−22	35.65	11.7	88	167	94	104
1902	56.5	107	− 3	44.35	14.0	102	162	91	112
1903	55.8	104	−16	41.16	12.9	106	170	87	108
1904	55.3	100	− 9	35.10	9.7	100	162	88	116
1905	55.8	106	−16	47.68	18.1	114	161	78	126
1906	57.0	100	−12	48.84	14.9	113	152	78	135
1907	56.1	102	−11	47.76	14.5	119	155	73	137
1908	57.7	104	2	41.94	9.5	109	169	82	115
1909	56.5	104	−14	51.41	10.0	108	158	82	125
1910	55.3	100	−20	50.67	30.6	111	168	74	123
1911	58.0	106	−16	46.77	6.6	117	155	67	143
1912	54.6	103	−20	47.93	27.0	108	165	74	127
1913	57.9	109	− 2	47.46	5.8	107	163	77	125
1914	56.3	109	−16	41.80	22.7	106	163	80	122
1915	56.2	102	0	51.92	14.4	114	150	93	122
1916	56.2	102	−14	45.49	23.9	106	173	87	106
1917	53.5	100	−21	46.01	42.8	106	155	91	119
1918	56.5	111	−20	40.64	24.9	106	159	87	119
1919	57.9	104	− 1	52.13	3.7	116	170	81	114
1920	55.5	100	− 6	46.90	10.1	104	154	81	131
1921	60.1	106	11	49.42	13.0	113	160	94	111
1922	58.5	103	1	44.43	3.0	119	170	87	108
1923	57.1	99	− 4	53.92	3.9	115	161	81	123
1924	55.0	103	− 9	42.68	6.3	105	169	79	118
1925	57.6	110	− 9	41.11	10.1	104	168	85	112
1926	56.1	107	−11	49.95	13.1	129	149	89	127
1927	57.8	103	− 3	53.45	10.5	123	157	88	120
1928	56.0	101	− 8	45.61	6.2	111	166	89	111
1929	56.2	101	−15	48.46	25.4	121	155	86	124
1930	57.6	114	−20	27.86	9.1	95	175	87	103
1931	59.0	106	− 9	41.98	4.6	114	165	77	123
1932	57.7	103	− 8	44.19	4.0	110	173	80	113
1933	58.4	106	− 9	50.61	6.9	115	154	86	125
1934	57.6	110	−19	37.14	11.8	100	171	90	104
1935	56.4	105	−14	57.40	13.3	123	151	91	123
1936	57 4	113	−25	37 94	20.4	97	170	93	103
1937	56 3	102	0	49.86	11.1	120	151	85	129
1938	58.8	101	− 4	45.78	6.1	161	92	112	61
1939	57.9	105	− 5	47.85	12.7	107	165	91	109
Period	56.7	114	−30	45.63	13.6	109	161	88	116

†51-year averages.

Climatological Data for the Year 1939.

Stations.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit). Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Precipitation (inches). Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall, unmelted.	Number of days. With precip. of .01 in. or more.	Clear.	Pt. Cloudy.	Cloudy.	Prevailing direction of wind.
WESTERN DIVISION																				
Beaver Dam	Ohio	441	33	.....	103	Sept. 8	7	Feb. 14	34	.....	8.38	Feb.	0.26	Sep.	9.1	.....	.....	.....	.....	S.
Calhoun	McLean	437	36	.....	104	Sept. 14	1	Feb. 4	37	50.05	9.51	Jan.	0.49	Sep.	18.5	105	191	47	127	.....
Earlington	Hopkins	420	50	58.7	100	Sept. 8	2	Feb. 4	50	50.35	8.79	Feb.	1.02	Sep.	12.0	101	217	51	97	SW.
Ford's Ferry	Crittenden	356	.....	.....	.....	.....	.....	.....	11	44.88	7.75	Feb.	0.71	Sep.	23.3	118	.....	.....	.....	.....
Gilbertsville	Marshall	431	.....	.....	.....	.....	.....	.....	1	48.15	8.30	Feb.	1.17	Sep.	.....	92	.....	.....	.....	.....
Greenville	Muhlenburg	519	23	58.1	103	Sept. 8	4	Feb. 21	23	42.40	8.12	Feb.	0.40	Sep.	10.5	102	198	110	57	S.
Hartford	Ohio	640	.....	.....	.....	.....	.....	.....	1	56.80	9.71	Feb.	0.43	Sep.	9.0	122	.....	.....	.....	.....
Henderson	Henderson	392	8	58.2	104	Sept. 8	0	Feb. 4	27	48.13	8.91	Feb.	0.73	Sep.	23.5	98	170	134	61	S.
Hopkinsville	Christian	524	44	59.2	104	Sept. 13	8	Feb. 21	44	50.31	8.95	Feb.	0.66	Sep.	5.0	93	234	87	44	S.
Lovelaceville	Ballard	445	11	60.0	101	Sept. 14	0	Feb. 4	11	48.83	9.25	April	1.63	Sep.	18.0	78	194	94	77	S.
Mayfield	Graves	364	31	60.0	101	Sept. 9	8	Feb. 4	31	48.80	7.87	Feb.	1.64	Sep.	13.6	111	181	118	66	S.
Murray	Calloway	412	14	.....	102	Sept. 14	8	Dec. 13	14	.....	7.82	Feb.	0.97	Sep.	24.7	.....	.....	.....	.....	S.
Owensboro	Daviess	420	43	57.0	99	Sept. 9	0	Feb. 4	43	46.79	6.79	June	0.25	Sep.	19.0	106	201	23	141	S.
Owensboro Dam 46		404	.....	.....	.....	.....	.....	.....	12	48.81	7.20	Feb.	0.22	Sep.	18.3	114	.....	.....	.....	.....
Paducah	McCracken	341	3	59.6	104	Sept. 9	12	Dec. 31	58	46.24	9.43	April	1.12	Sep.	14.0	106	162	86	117	.....
Paducah, near	McCracken	390	20	.....	104	Sept. 14	− 5	Feb. 4	22	41.71	8.85	Feb.	0.92	Oct.	21.0	75	.....	.....	.....	.....
Princeton	Caldwell	529	33	.....	105	Sept. 8	4	Feb. 4	35	.....	9.06	Feb.	0.77	Sep.	.....	.....	.....	.....	.....	S.
Rumsey, Lock 2		384	.....	.....	.....	.....	.....	.....	23	49.33	8.50	Feb.	0.48	Sep.	13.0	121	.....	.....	.....	.....
Russellville	Logan	590	30	.....	100	Sept. 9	8	Feb. 21	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S.
Uniontown Dam 49	Union	357	.....	.....	.....	.....	.....	.....	11	45.68	6.28	April	0.60	Sep.	19.2	115	.....	.....	.....	.....
CENTRAL DIVISION.																				
Addison Dam 45	Breckinridge	352	.....	.....	.....	.....	.....	.....	12	45.97	7.74	Feb.	0.46	Sep.	13.3	120	.....	.....	.....	.....
Anchorage	Jefferson	700	40	56.0	99	Sept. 8	1	Dec. 25	39	40.05	6.66	June	0.74	Nov.	21.2	89	212	54	99	se.
Bowling Green	Warren	500	51	60.6	103	Sept. 8	13	Feb. 23	57	48.85	8.44	Feb.	1.15	Sep.	1.8	100	166	104	95	w.
Brownsville, Lock 6	Edmonson	410	.....	.....	.....	.....	.....	.....	23	50.55	9.06	Feb.	1.03	Nov.	.....	103	.....	.....	.....	.....
Burnside	Pulaski	705	...	.....	.....	.....	.....	.....	49	44.76	8.26	Feb.	1.12	Sep.	0.2	129	.....	.....	.....	.....
Carrollton, Lock 1	Carroll	480	.....	.....	.....	.....	.....	.....	41	43.67	7.64	Mar.	0.78	May	.....	76	.....	.....	.....	.....
Cold Spring	Campbell	489	.....	.....	.....	.....	.....	.....	13	45.27	7.31	April	0.73	Nov.	13.0	116	.....	.....	.....	.....
Danville	Boyle	955	7	57.6	99	Sept. 14	3	Dec. 25	7	49.93	8.64	Feb.	0.81	Sep.	11.9	123	167	80	118	SW.
Dix Dam, Burgin	Mercer	770	16	.....	102	Sept. 14	10	Dec. 25	16	.....	8.14	Feb.	1.13	Nov.	.....	.....	.....	.....	.....	S.
Eadsville	Wayne	622	.....	.....	.....	.....	.....	.....	4	46.22	9.95	Feb.	1.21	Nov.	.....	117	.....	.....	.....	.....
Enbank	Pulaski	1177	46	.....	.....	.....	4	Feb. 23	46	....	10.30	Feb.	0.63	Sep.	.....	.....	.....	.....	.....	S.
Frankfort	Franklin	504	48	57.5	103	Sept. 14	2	Dec. 25	49	45.02	7.10	Feb.	0.34	Sep.	10.7	104	158	95	112	W.
Gest, Lock 3	Henry	490	.....	.....	.....	.....	.....	.....	54	51.57	7.09	Mar.	0.68	Sep.	21.8	107	.....	.....	.....	.....
Glasgow	Barren	780	14	59.1	99	Sept. 8	14	Dec. 22	14	49.18	9.04	Feb.	0.88	Sep.	3.1	109	.....	.....	.....	SW.
Grant	Boone	506	.....	.....	.....	.....	.....	.....	15	40.54	8.41	Mar.	0.61	Sep.	.....	106	.....	.....	.....	.....
Greensburg	Green	581	47	57.4	102	Sept. 8	9	Feb. 23	51	47.57	7.97	Feb.	0.90	Nov.	0.5	110	76	19	270	S.
High Bridge, Lock 7	Jessamine	544	.....	.....	.....	.....	.....	.....	38	45.06	8.30	Feb.	1.07	Nov.	10.8	126	.....	.....	.....	.....
Irvington	Breckinridge	646	42	.....	99	Sept. 9	6	Dec. 25	42	.....	7.45	Feb.	0.54	Sep.	14.1	.. ..	.....	.....	.....	SW.
LaGrange	Oldham	850	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1.01	Sep.	.....	.....	.....	.....	.....	SW.
Lancaster	Garrard	1032	.....	.....	.....	.....	.....	.....	14	66.70	10.48	Feb.	1.91	Sep.	.....	102	.....	.....	.....	.....
Leitchfield	Grayson	635	44	58.4	103	Sept. 14	8	Feb. 23†	44	54.87	10.28	June	0.53	Sep.	8.5	113	149	140	77	SW.
Lexington	Fayette	989	59	56.9	101	Sept. 8	10	Dec. 25	57	48.70	8.48	Feb.	1.15	Nov.	17.9	139	.....	.....	.....	.....
Little Hickman, Lock 8	Jessamine	560	.....	.....	.....	.....	.....	.....	29	56.96	9.86	June	0.90	Nov.	12.0	100	.....	.....	.....	.....
Lockport, Lock 2	Henry	485	.....	.....	.....	.....	.....	.....	30	51.80	8.68	June	0.97	Sep.	18.0	93	.....	.....	.....	.....
LOUISVILLE	Jefferson	525	67	57.2	99	Sept. 9	9	Dec. 31	67	46.46	7.11	Mar.	0.96	May	24.3	123	155	91	119	SW.
Bowman Field	Jefferson	558	3	57.2	99	Sept. 9	3	Dec. 25	3	45.35	7.42	Mar.	1.03	Sep.	17.7	114	.....	.....	.....	.....
Mammoth Cave	Edmonson	.....	5	56.6	100	Sept. 8	8	Dec. 22	5	56.49	9.50	Feb.	1.13	Nov.	7.0	124	161	76	128	SW.
Monticello	Wayne	910	.....	.....	.....	.....	.....	.....	2	.....	10.29	Feb.	1.26	Sep.	.....	.....	.....	.....	.....	.....
Munfordville	Hart	600	.....	.....	.....	.....	.....	.....	15	54.56	9.59	Feb.	0.89	Nov.	.....	91	.....	.....	.....	.....
St. John	Hardin	777	44	57.9	103	Sept. 8	2	Dec. 25	44	50.79	7.72	Feb.	0.51	Sep.	6.4	116	154	92	119	.....
Saiwia, Lock 6	Mercer	520	.....	.....	.....	.....	.....	.....	26	53.62	8.16	Feb.	0.94	Sep.	15.0	102	.....	.....	.....	.....
Shelbyville	Shelby	825	51	56.0	100	Sept. 8	2	Dec. 25	51	43.41	7.46	Mar.	0.86	May	19.5	124	148	3	214	S.
Shepherdsville	Bullitt	500	.....	.....	.....	.....	.....	.....	4	49.83	7.86	April	0.70	May	16.5	101	140	172	53	SW.
Smith's Grove	Warren	607	3	48.9	101	Sept. 14	11	Feb. 23	3	46.95	8.85	Feb.	0.93	May	1.3	110	.....	.....	.....	.....
Stearns	McCreary	1400	4	58.9	98	Sept. 14	10	Feb. 23	4	47.11	11.82	Feb.	1.03	Sep.	1.0	143	.....	.....	.....	W.
Taylorsville	Spencer	489	35	.....	99	Sept. 9	7	Dec. 25	35	.....	7.83	June	0.68	Nov.	.....	.....	.....	.....	.....	.....
Tyrone, Lock 5	Anderson	524	.....	.....	.....	.....	.....	.....	22	47.86	7.97	Feb.	0.98	Sep.	16.7	104	.....	.....	.....	.....
Williamstown	Grant	943	37	57.6	100	Sept. 8	5	Feb. 23	37	50.49	8.25	Mar.	0.63	Sep.	17.5	106	206	39	120	W.
Woodbury, Lock 4	Butler	504	.....	.....	.....	.....	.....	.....	23	47.62	8.22	Feb.	0.68	Sep.	3.1	110	.....	.....	.....	.....
EASTERN DIVISION.																				
Annville	Jackson	.....	.....	55.4	97	Sept. 9	7	Dec. 25	9	47.70	10.21	Feb.	0.76	Nov.	16.0	142	117	145	103	SW.
Ashland	Boyd	534	21	57.6	100	Sept. 8	4	Feb. 23	26	46.10	7.62	April	0.78	Nov.	8.2	121	149	105	111	W.
Berea	Madison	1070	38	.....	97	Sept. 8	5	Feb. 23	38	.....	7.18	Feb.	1.09	Nov.	10.4	.....	.....	.....	.....	SW.
College Hill, Lock 11	Madison	611	.....	.....	.....	.....	.....	.....	80	50.81	8.46	Feb.	0.89	Nov.	15.0	117	.....	.....	.....	.....
Cumberland	Harlan	1440	3	.....	97	Sept. 9	.....	.....	3	.....	.....	.....	0.50	Sep.	.....	.....	.....	.....	.....	.....
Cynthiana	Harrison	684	.....	.....	.....	.....	.....	.....	23	40.77	6.29	Mar.	0.51	Sep.	14.5	77	.....	.....	.....	.....
Falmouth	Pendleton	600	.....	.....	.....	.....	.....	.....	51	50.79	8.78	April	0.77	May	11.1	118	.....	.....	.....	.....
Farmers	Rowan	668	33	55.9	99	Sept. 9	10	Feb. 22	34	51.86	8.70	July	0.90	Sep.	14.0	123	117	108	140	W.
Flemingsburg	Fleming	870	.....	.....	.....	.....	.....	.....	15	52.41	9.16	June	1.47	Nov.	.....	107	.....	.....	.....	.....
Ford, Lock 10	Clark	593	.....	.....	.....	.....	.....	.....	24	51.03	8.81	Feb.	0.76	Nov.	8.1	121	.....	.....	.....	.....
Grayson	Carter	589	.....	.....	.....	.....	.....	.....	10	49 23	6.64	Feb.	0.76	Nov.	11.5	77	.....	.....	.....	.....
Greenup, Dam 30	Greenup	540	.....	.....	.....	.....	.....	.....	20	44.64	8.60	April	1.04	May	11.5	132	.....	.....	.....	.....
Hazard	Perry	869	.....	.....	.....	.....	.....	.....	16	46.16	8.87	Feb.	0.79	Nov.	.....	106	.....	.....	.....	.....
Heidelberg, Lock 14	Lee	663	5	57.8	99	Sept. 9	− 2	Dec. 25	23	50.31	10.30	Feb.	0.92	Nov.	10.0	123	119	76	170	W.
Jackson	Breathitt	776	.....	.....	.....	.....	.....	.....	5	58.81	9.58	Feb.	0.76	Nov.	10.0	97	.....	.....	.....	.....
Jenkins	Bell	1566	.....	.....	.....	.....	.....	.....	15	41.43	6.69	June	0.66	Nov.	7.5	112	.....	.....	.....	.....
Louisa	Lawrence	544	.....	.....	.....	.....	.....	.....	36	39.22	7.23	Feb.	0.26	Nov.	.....	97	.....	.....	.....	.....
Maysville	Mason	524	44	57.0	98	Sept. 8	3	Feb. 23	44	54.05	8.53	April	1.09	May	16.3	129	107	170	88	S.
Middlesboro	Bell	1128	41	.....	.....	.....	16	Dec. 25	49	....	9.43	Feb.	0.89	Oct.	.....	.....	.....	.....	.....	.....
Mount Sterling	Montgomery	930	50	.....	99	Sept. 14	7	Dec. 25	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oneida	Clay	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	1.31	Sep	.....	.....	.....	.....	.....	.....
Oneonta, Dam 35	Campbell	497	.....	.....	.....	.....	.....	.....	18	41.31	8.53	April	0.61	May	21.6	118	.....	.....	.....	.....
Paintsville	Johnson	620	.....	.....	.....	.....	.....	.....	6	.....	9.05	July	0.53	Nov.	.....	.....	.....	.....	.....	.....
Pikeville	Pike	636	4	59.1	100	Sept. 9	6	Dec. 25	39	43.34	7.84	July	0.56	Nov.	8.0	137	.....	.....	.....	.....
Pippapass	Knott	1035	6	.....	97	June 16	.....	.....	6	..	6.29	Feb.	1.47	May	.....	.....	.....	.....	.....	.....
Quicksand	Breathitt	732	13	.....	100	Sept. 9	− 2	Dec. 25	13	55.38	10.05	Feb.	0.91	Nov.	16.0	89	.....	.....	.....	.....
Ravenna, Lock 12	Estill	681	.....	.....	.....	.....	.....	.....	22	45.89	6.59	July	1.81	May	.....	110	.....	.....	.....	.....
Richmond	Madison	926	50	58.7	100	Sept. 9	10	Dec. 25	49	56.05	12.60	June	1.10	Nov.	.....	118	172	98	95	.....
Valley View, Lock 9	Madison	571	.....	.....	.....	.....	.....	.....	26	52.06	9.92	July	0.63	May	13.5	101	.....	.....	.....	.....
Vanceburg, Dam 32	Lewis	525	.....	.....	.....	.....	.....	.....	25	50.17	8.43	April	1.48	Nov.	12.0	128	.....	.....	.....	.....
Williamsburg	Whitley	939	44	.....	100	Sept. 9	10	Feb. 22	45	39.95	11.87	Feb.	0.91	Nov.	1.5	112	199	68	98	.....
Willow, Lock 13	Lee	646	.....	.....	.....	.....	.....	.....	23	50.34	11.45	Feb.	1.02	Nov.	.....	105	.....	.....	.....	.....
Winchester	Clark	964	3	56 8	100	Sept. 14	7	Dec. 25	3	50.28	8.74	Feb.	0.90	Nov.	11.0	137	.....	.....	.....	.....

†Also on other dates.

All temperature data are taken from self-registering thermometers.
Reference letters. , b, c, appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

Monthly and Annual Precipitation for the Year 1939, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
WESTERN DIVISION.																										
Beaver Dam	5.43	+0.99	8.38	+5.20	6.23	+1.99	5.50	+1.38	1.06	−3.17	4.52	+1.35	2.77	−1.21	2.49	−0.82	0.26	−2.42	1.34	−1.46	.....	.....	2.01	−1.74	.....	.....
Calhoun	9.51	+4.55	8.90	+5.58	6.72	+2.15	6.84	+2.42	1.60	−2.38	4.72	+0.86	3.18	−0.32	3.12	−0.72	0.49	−2.59	1.70	−1.89	1.24	−2.40	2.03	−2.23	50.05	+3.22
Earlington	8.09	+3.05	8.79	+5.26	5.51	+0.93	7.80	+3.70	2.87	−1.24	4.49	+0.67	2.20	−1.25	2.89	−0.36	1.02	−1.85	2.59	−0.71	1.57	−2.05	2.53	−1.74	50.35	+4.41
Ford's Ferry	6.68	+0.98	7.75	+5.17	5.80	+0.77	6.89	+3.45	2.80	−0.82	5.01	+1.41	1.04	−1.18	2.92	+0.54	0.71	−3.97	1.58	−1.32	1.49	−1.68	2.21	−0.86	44.88	+1.48
Gilbertsville	6.77	.....	8.30	.....	5.46	.....	8.10	.....	2.63	.....	5.82	.....	1.41	.....	2.64	.....	1.17	.....	1.25	.....	1.73	.....	2.87	.....	48.15	.....
Greenville	5.29	+0.75	8.12	+4.91	5.46	+1.07	6.57	+2.21	1.59	−2.66	3.70	−0.46	2.46	−1.29	2.58	−0.88	0.40	−2.17	2.26	−1.46	1.02	−2.52	2.95	−1.01	42.40	−3.54
Hartford	6.00	.....	9.71	.....	7.18	.....	5.69	.....	1.30	.....	7.03	.....	2.56	.....	2.80	.....	0.43	.....	2.48	.....	2.22	.....	2.90	.....	56.30	.....
Henderson	6.53	+2.88	5.91	+6.25	4.55	−0.86	7.30	+3.80	2.85	−1.08	4.17	+0.90	3.35	+0.16	2.87	−0.35	0.73	−2.73	2.64	−0.54	2.22	−1.57	2.01	−2.62	48.13	+8.78
Hopkinsville	6.33	+1.01	8.95	+5.33	6.34	+1.47	6.52	+2.21	1.34	−2.38	5.89	+1.40	5.37	+1.64	2.27	−1.33	0.66	−2.50	1.97	−1.46	1.67	−2.26	3.06	−1.82	50.31	+0.82
Lovelaceville	6.56	+0.58	8.95	+5.23	4.87	−0.82	9.25	+5.46	2.15	−1.35	3.26	−1.82	3.37	−2.01	2.63	−0.93	1.03	−3.18	1.60	−1.92	2.75	−0.61	2.47	−1.67	48.83	−2.03
Mayfield	7.65	+2.49	7.87	+4.49	4.29	+0.26	7.68	+3.42	3.33	−0.67	3.11	−0.69	4.22	+0.68	1.92	−1.79	1.64	−1.34	1.95	−1.31	2.64	−1.64	2.96	−1.42	48.80	+2.48
Murray	5.18	−0.35	7.82	+4.52	3.91	−2.04	6.93	+2.22	.....	.....	.....	.....	.....	.....	1.95	−1.44	0.97	−3.31	1.58	−1.88	1.96	−1.44	3.53	+0.13	.....	.....
Owensboro	5.73	+1.46	6.47	+3.62	5.38	+1.21	5.56	+1.60	1.15	−2.78	6.79	+2.88	4.17	+1.14	5.67	+2.23	0.23	−2.99	2.14	−1.81	1.31	−2.01	2.07	−1.67	46.79	+3.38
Owensboro No. 2	5.76	+0.44	7.20	+1.58	5.73	+1.96	6.23	+2.75	1.35	−2.47	6.72	+2.60	4.19	+1.88	6.11	+3.01	0.22	−3.21	2.22	−0.71	1.22	−1.59	1.86	−1.91	48.81	+7.83
Paducah	6.26	+1.29	8.62	+5.31	5.60	+0.99	5.43	+1.88	1.95	−1.99	3.02	−1.20	1.64	−1.84	3.01	−0.73	1.12	−2.15	1.39	−1.93	1.54	−2.29	2.76	−1.43	46.24	−0.96
Paducah, near	5.98	+0.12	8.85	+5.19	5.18	+0.33	6.90	+2.48	2.00	−2.06	2.43	−1.36	2.62	−1.89	2.10	−2.22	1.08	−2.11	0.92	−2.93	1.92	−2.02	2.33	−2.52	41.71	−9.12
Princeton	7.81	+2.84	9.06	+5.57	5.85	+1.75	.....	.....	.....	.....	4.12	+0.02	0.85	−2.99	2.13	−1.47	0.77	−2.67	1.17	−2.00	1.89	−1.40	3.13	−1.23	.....	.....
Rumsey, Lock No. 2†	6.33	+1.75	8.50	+5.28	6.65	+2.15	7.99	+3.85	1.46	−2.78	4.87	+1.26	3.55	+0.47	4.17	−0.05	0.48	−2.67	1.58	−1.64	1.28	−2.14	2.43	−1.39	49.33	+3.29
Russellville	6.23	+0.99	.....	.....	5.11	+0.84	4.30	−0.30	2.20	−1.67	4.07	+0.43	3.58	+0.72	1.74	−1.37	0.54	−2.53	2.23	−0.68	1.47	−1.81	2.47	−1.51	.....	.....
Uniontown	5.89	+0.87	5.64	+3.32	5.11	+1.18	6.28	+2.85	2.60	−0.58	4.10	+0.37	6.16	+2.99	3.46	+0.24	0.60	−4.10	2.20	−0.74	1.66	−1.10	1.98	−1.12	45.68	+4.18
CENTRAL DIVISION.																										
Addison	5.35	−0.33	7.74	+5.08	6.40	+2.54	6.25	+2.56	1.34	−2.84	7.22	+3.32	3.89	+0.81	1.78	−1.36	0.46	−2.59	2.30	−0.77	1.13	−1.67	2.12	−1.49	45.97	+3.31
Anchorage	4.76	+0.59	5.47	+2.61	5.63	+1.48	4.84	+1.04	0.97	−2.76	6.66	+2.99	3.25	−0.85	3.43	−0.22	0.94	−1.78	1.39	−1.59	0.74	−2.50	1.91	−1.95	40.05	−2.99
Bowling Green	7.78	+2.56	8.41	+4.82	6.48	+1.38	5.24	+1.80	1.33	−2.86	5.12	+1.06	3.67	−0.36	2.97	−0.66	1.15	−2.24	2.40	−0.81	1.84	−2.30	2.98	−1.74	48.85	−0.25
Brownsville, Lock No 6†	6.98	+1.46	9.06	+5.09	6.38	+1.15	7.05	+2.69	1.63	−2.31	6.73	+2.49	3.68	+0.23	1.72	−2.53	1.12	−2.10	2.41	−0.63	1.03	−2.83	2.81	−1.93	50.35	+0.78
Burnside	5.65	+0.81	9.26	+5.46	4.72	−0.49	4.73	+0.53	2.56	−1.94	3.25	−0.94	3.31	−1.20	2.96	−1.26	1.12	−2.50	3.19	−0.99	1.14	−2.32	2.87	−1.88	44.76	−5.69
Carrollton, Lock No. 1	4.24	+0.52	5.59	+2.99	7.61	+3.82	5.99	+2.34	0.78	−3.05	4.75	+0.77	4.33	+0.98	4.44	+0.62	1.53	−1.77	1.93	−0.95	1.38	−1.55	1.27	−1.84	43.67	+2.88
Cold Spring, Dam 36	3.73	+0.45	4.68	+2.30	7.30	+3.75	7.31	+3.65	1.60	−2.25	9.17	+5.10	5.43	+1.58	1.74	−1.90	0.92	−2.97	1.43	−1.10	0.73	−2.51	1.22	−1.61	45.27	+4.46
Danville	6.52	+2.54	8.64	+5.41	5.30	+1.39	5.90	+2.07	2.96	−0.87	7.03	+3.12	2.94	−1.72	3.78	+0.09	6.81	−2.71	2.56	+0.64	1.05	−1.96	2.44	−1.40	49.93	+6.82
Dix Dam, Burgin	6.03	+2.71	8.14	+5.17	5.15	+1.75	.....	.....	2.79	−0.68	5.88	+1.54	5.11	+1.06	3.02	−0.64	2.16	−1.18	2.13	−0.85	1.13	−2.00	1.60	−2.10	.....	.....
Eadsville	5.37	.....	9.95	.....	4.20	.....	5.34	.....	2.55	.....	5.48	.....	2.71	.....	2.03	.....	1.72	.....	2.67	.....	1.21	.....	2.99	.....	46.22	.....
Eubank	4.92	+0.49	10.30	+6.91	4.50	−0.21	4.56	+0.62	3.36	−1.03	3.75	−0.50	.....	.....	3.06	−1.22	0.63	−2.87	2.20	−0.96	.....	.....	3.09	−1.07	.....	.....
Frankfort	4.81	+0.57	7.10	+3.96	5.93	+1.55	6.84	+3.08	0.91	−2.37	6.48	+2.37	5.97	+2.01	1.35	−2.35	0.34	−2.42	2.58	−0.13	1.15	−1.84	1.57	−2.23	45.02	+2.19
Gest, Lock No. 3	4.45	+0.40	6.61	+3.57	7.09	+2.53	5.68	+1.91	0.93	−2.37	7.19	+3.18	7.07	+3.11	6.58	+3.02	0.68	−2.46	1.92	−0.99	1.11	−2.13	2.26	−1.53	51.57	+8.27
Glasgow	5.89	+1.50	9.04	+5.51	5.36	−0.43	6.97	+2.68	1.65	−1.98	4.08	+0.46	7.24	+2.71	2.25	−2.21	0.88	−2.57	2.90	−0.51	0.90	−3.35	2.76	−2.39	49.18	−0.84
Grant, Dam 3	3.87	+0.78	4.47	+2.22	8.41	+5.89	7.21	+3.87	1.23	−1.86	4.67	+0.92	3.74	+0.17	2.09	−1.20	0.61	−2.87	1.34	−1.11	1.39	−1.38	1.51	−1.69	40.54	+3.84
Greensburg	7.16	+1.90	7.97	+4.38	6.04	+0.95	6.19	+2.30	1.91	−2.47	5.63	+1.20	3.44	−0.40	2.62	−1.56	1.16	−3.13	2.10	−1.29	0.90	−2.65	2.47	−2.05	47.57	−1.84
High Bridge, Lock No 7	6.04	+1.40	8.30	+5.22	4.96	+0.66	5.71	+2.20	2.27	−1.39	4.26	+0.22	4.01	−0.04	2.32	−1.46	1.23	−1.67	2.91	+0.06	1.07	−2.11	2.00	−2.03	45.06	+1.06
Irvington	4.55	+0.14	7.45	+4.31	6.21	+1.74	6.44	+2.48	0.55	−3.18	7.16	+3.15	.....	.....	.....	.....	0.64	−2.36	2.45	−0.58	1.63	−1.62	2.57	−1.36	.....	.....
LaGrange	.....	.....	.....	.....	.....	.....	5.02	.....	1.16	.....	9.72	.....	4.55	.....	6.98	.....	1.01	.....	1.26	.....	1.20	.....	3.06	.....	.....	.....
Lancaster	6.86	+2.55	10.48	+7.52	6.64	+1.79	6.83	+3.73	4.51	+0.16	10.18	+4.97	8.22	+3.83	4.98	+0.94	1.91	−1.02	2.33	−0.99	2.22	−1.04	2.02	−1.14	66.70	+20.80
Leitchfield	5.69	+0.70	8.58	+5.20	6.34	+1.92	6.67	+2.31	2.03	−2.14	10.28	+6.19	5.98	+2.32	2.53	−1.19	0.53	−2.94	2.33	−1.13	1.34	−2.60	2.57	−2.17	54.87	+6.47
Lexington	5.94	+1.76	8.48	+4.86	5.39	+1.07	6.46	+2.96	2.40	−1.81	7.66	+3.61	3.30	−0.35	1.80	−1.65	1.59	−1.48	2.58	−0.01	1.15	−2.19	2.35	−1.42	48.70	+5.35
Little Hickman, Lock 8	6.79	+2.38	9.04	+5.68	5.18	+0.79	6.17	+2.77	1.81	−1.97	9.86	+5.52	5.56	+1.60	5.94	+1.90	1.15	−2.05	2.68	−0.14	0.96	−2.24	2.11	−1.57	56.96	+12.67
Lockport, Lock No. 2	4.87	+0.85	7.62	+4.75	6.51	+2.07	5.20	+1.47	1.19	−2.27	8.68	+4.30	6.95	+3.47	4.51	+0.73	0.97	−2.11	2.23	−0.63	1.03	−1.71	2.04	−1.64	51.80	+9.18
LOUISVILLE	4.42	+0.42	6.95	+3.40	7.11	+2.72	4.96	+1.08	0.96	−2.76	7.00	+3.18	5.91	+2.21	2.98	−0.44	1.20	−1.58	1.38	−1.27	1.16	−2.45	2.43	−1.31	46.46	+3.20
Do. Bowman Field	4.84	.....	7.13	.....	7.42	.....	5.24	.....	1.18	.....	6.99	.....	4.41	.....	2.84	.....	1.03	.....	1.23	.....	1.17	.....	1.87	.....	45.35	.....
Mammoth Cave	8.42	.....	9.50	.....	6.41	.....	6.86	.....	1.33	.....	8.50	.....	5.96	.....	2.50	.....	1.22	.....	4.37	.....	1.13	.....	2.59	.....	56.49	.....
Monticello	5.72	.....	10.29	.....	4.63	.....	5.63	.....	1.17	.....	.....	.....	3.94	.....	2.84	.....	1.26	.....	1.59	.....	1.72	.....	4.11	.....	.....	.....
Moorefordville	7.51	+2.05	9.59	+5.96	6.17	+2.22	5.44	+1.67	1.03	−2.71	8.99	+3.39	6.32	+3.80	2.89	+0.14	1.78	−0.99	1.29	−2.11	0.89	−1.77	2.78	−0.30	54.56	+11.35
St. John	6.35	+1.59	7.72	+4.10	5.58	+1.94	7.22	+3.04	2.65	−1.42	8.96	+4.70	3.79	−0.42	1.27	−2.66	0.51	−2.84	2.31	−0.96	1.25	−2.30	2.12	−2.40	50.79	+5.55
Salvisa, Lock No. 6	6.64	+1.97	8.16	+5.12	5.95	+1.77	7.49	+3.83	1.64	−1.87	7.08	+2.66	4.18	+0.38	4.11	+0.57	0.94	−2.12	3.90	+1.12	1.19	−2.11	2.34	−2.06	53.62	+9.16
Shelbyville	4.94	+0.39	5.65	+2.29	7.46	+2.71	6.14	+2.23	0.86	−3.15	5.36	+1.35	3.23	−0.55	2.36	−1.33	1.16	−1.68	2.79	−0.13	1.45	−1.80	1.92	−2.26	43.41	−1.72
Shepherdsville	6.42	.....	7.27	.....	6.67	.....	7.86	.....	0.70	.....	6.73	.....	2.08	.....	3.56	.....	0.97	.....	3.07	.....	1.06	.....	2.94	.....	42.33	.....
Smith's Grove	7.23	.....	8.85	.....	5.89	.....	6.09	.....	1.07	.....	4.93	.....	4.46	.....	1.23	.....	1.08	.....	2.49	.....	1.01	.....	2.75	.....	46.95	.....
Stearns	5.52	.....	11.82	.....	4.73	.....	3.76	.....	1.83	.....	4.67	.....	3.62	.....	2.68	.....	1.03	.....	2.15	.....	1.20	.....	4.10	.....	47.11	.....
Taylorsville	.....	.....	.....	.....	6.56	+2.04	7.75	+3.80	0.65	−3.03	7.83	+3.56	5.80	+1.73	2.55	−0.96	0.95	−2.21	3.20	−0.85	0.68	−2.68	2.46	−1.82	.....	.....
Tyrone, Lock No. 5	5.89	+1.45	7.97	+4.87	5.71	+2.09	7.40	+3.81	1.63	−1.87	4.54	−0.03	5.14	+0.96	2.09	−1.87	0.80	−2.81	3.14	+0.16	1.10	−1.79	2.24	−1.85	47.86	+3.22
Williamstown	4.32	+1.46	6.48	+3.77	8.25	+4.21	6.71	+3.27	1.17	−2.41	8.29	+4.66	5.45	+1.89	3.76	+0.03	0.63	−2.00	2.01	−0.98	1.12	−1.80	2.10	−1.44	50.29	+9.60
Woodbury, Lock No. 4†	6.18	+1.03	8.22	+4.71	5.72	+1.08	6.60	+2.48	2.58	−1.05	5.75	+1.35	3.60	+0.13	2.36	−1.47	0.68	−2.02	1.95	−1.18	1.16	−2.28	2.82	−1.40	47.62	+1.47
EASTERN DIVISION.																										
Annville	5.76	.....	10.21	.....	4.89	.....	3.81	.....	2.95	.....	4.05	.....	6.75	.....	1.99	.....	1.75	.....	1.80	.....	0.76	.....	2.98	.....	47.70	.....
Ashland	3.39	−0.67	7.71	+4.63	7.23	+2.91	7.62	+4.02	1.22	−2.84	3.66	−0.56	4.59	+0.40	3.41	−0.33	2.07	−0.37	2.91	+0.16	0.78	−2.12	1.48	−2.17	46.10	+3.06
Berea	5.65	+0.86	7.18	+3.99	5.64	+0.65	6.56	+2.91	1.70	−2.31	5.53	+1.03	.....	.....	1.50	−2.71	1.63	−1.31	4.06	+0.98	1.09	−2.25	1.83	−2.43	.....	.....
College Hill, Lock No.12	5.82	+1.34	8.46	+5.53	5.28	+0.69	5.82	+2.60	1.76	−2.15	8.01	+3.90	6.40	+2.84	1.70	−2.40	1.57	−1.25	2.64	−0.41	0.89	−2.01	2.43	−1.85	50.81	+6.63
Cumberland	.....	.....	.....	.....	.....	.....	.....	.....	2.33	.....	5.18	.....	1.99	.....	2.39	.....	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cynthiana	4.40	+0.22	5.76	+2.70	6.29	+2.69	4.67	+1.01	2.41	−1.00	4.73	+1.57	4.59	+1.17	3.66	−0.24	0.51	−2.87	2.09	−0.48	0.51	−2.52	1.15	−2.70	40.77	−1.25
Falmouth	4.67	+0.66	6.22	+3.28	8.56	+4.47	8.78	+5.10	0.77	−2.76	5.37	+1.29	6.59	+2.94	4.32	+0.84	1.32	−1.68	1.58	−1.03	1.22	−1.78	1.81	−2.11	50.79	+8.98
Farmers	4.89	+0.55	8.53	+5.43	5.78	+1.28	5.60	+1.90	1.67	−2.20	6.21	+1.91	8.70	+4.32	3.02	−1.42	0.90	−1.82	2.97	+0.06	1.00	−1.99	2.12	−1.74	51.36	+6.23
Fleminsburg	4.01	−0.42	7.46	+4.37	6.87	+2.48	6.58	+2.69	2.87	−0.83	9.16	+4.72	6.62	+2.93	1.54	−3.25	1.79	−1.66	2.52	−0.79	1.47	−1.91	1.62	−1.78	52.41	+1.57
Ford, Lock No. 10	6.13	+1.86	8.81	+5.84	4.53	+0.37	6.38	+2.13	2.62	−0.58	8.48	+4.71	5.67	+1.97	2.27	−1.93	0.86	−2.50	1.97	−1.89	0.76	−2.10	3.06	−1.56	51.40	+7.54
Grayson	2.78	.....	6.64	.....	4.53	+2.15	5.25	+2.23	1.91	−1.64	4.23	+0.79	5.31	+1.10	3.53	−0.04	1.61	−0.60	2.23	−0.77	0.76	−1.87	1.25	−1.49	40.23	.....
Greenup, Dam 30	3.71	+0.18	7.62	+4.79	7.25	+3.57	8.60	+5.11	1.04	−2.27	3.19	−0.55	3.69	−0.66	1.70	−1.79	2.04	−0.40	2.64	+0.48	1.25	−1.77	1.51	−1.78	44.64	+5.27
Hazard	4.31	+1.08	8.87	+5.41	3.81	−0.36	4.18	+0.89	2.25	−2.86	6.21	+2.79	4.66	−0.38	3.54	−0.47	2.96	−0.24	1.96	−1.08	0.79	−2.26	2.59	−2.13	46.16	+0.40
Heidelberg, Lock No 14	5.29	+0.53	10.30	+7.24	5.05	+0.80	4.54	+1.22	1.30	−2.68	6.43	+2.25	6.08	+1.30	3.17	−0.75	1.67	−1.47	2.61	−0.51	0.92	−1.99	2.54	−1.12	50.31	+5.28
Jackson	5.47	.....	9.58	.....	5.47	.....	5.55	.....	1.50	.....	7.09	.....	9.06	.....	6.45	.....	2.80	.....	2.91	.....	0.76	.....	3.88	.....	58.15	.....
Jenkins	3.00	−0.43	6.55	+3.73	3.33	−1.42	3.48	−0.36	2.22	−2.55	6.89	+2.68	6.20	+1.81	3.53	−0.31	1.80	−1.14	1.36	−2.15	0.68	−3.06	2.61	−1.07	41.43	−4.63
Lonisa	4.88	+1.06	7.23	+4.47	6.19	+1.96	4.94	+1.60	0.79	−3.07	3.39	−1.37	3.97	+0.42	1.31	−2.85	1.46	−1.13	2.51	−0.36	0.26	−2.44	2.29	−1.35	39.22	−3.06
Maysville	4.13	+0.03	6.29	+3.19	7.49	+3.25	8.58	+5.01	1.09	−2.62	6.79	+2.74	5.87	+1.55	4.45	+0.58	5.09	+2.20	1.63	−1.03	1.15	−1.89	1.54	−2.19	54.05	+11.74
Middlesboro	.....	.....	9.13	+5.41	4.13	−1.11	3.81	−0.67	1.39	−2.63	3.76	−0.84	3.73	−1.17	1.22	−3.38	.....	.....	0.89	−2.09	1.08	−2.44	2.48	−2.51	.....	.....
Mount Sterling	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.50	+1.33	1.50	−1.68	.....	.....	.....	.....	.....	.....	.....	.....
Oneida	.....	.....	.....	.....	4.56	.....	3.67	.....	2.53	.....	4.19	.....	6.40	.....	2.06	.....	1.31	.....	2.02	.....	.....	.....	2.46	.....	.....	.....
Oneonta, Dam No. 35	3.73	+0.25	4.76	+2.13	7.26	+3.45	8.53	+4.59	0.61	−2.81	6.62	+2.32	4.71	+0.46	0.72	−3.72	0.93	−2.36	1.31	−1.11	0.96	−1.95	1.17	−2.24	41.31	−1.02
Paintsville	.....	.....	.....	.....	4.72	.....	4.38	.....	1.83	.....	5.59	.....	9.05	.....	2.43	.....	1.82	.....	1.62	.....	0.53	.....	1.86	.....	.....	.....
Pikeville	3.12	−0.66	7.26	+4.12	3.81	−0.43	3.87	+0.09	2.47	−1.13	6.15	+2.05	7.84	+3.62	2.27	−2.05	1.76	−1.26	1.98	−1.08	0.56	−2.40	2.49	−1.03	43.34	+0.04
Pippapass	3.24	.....	6.29	.....	4.25	.....	3.10	.....	1.47	.....	4.73	.....	5.71	.....	2.47	.....	3.13	.....	3.22	.....	.....	.....	.....	.....	.....	.....
Quicksand	5.98	+2.07	10.05	+6.75	5.15	−0.72	3.90	−0.33	3.87	−1.27	5.09	+1.02	9.59	+4.16	4.14	−0.37	2.32	−1.53	1.88	−1.59	0.91	−2.96	2.50	−1.55	55.38	+4.84
Ravenna, Lock No. 12	4.05	+0.47	5.34	+1.27	4.84	+0.88	5.56	+2.45	1.81	−2.11	5.86	+1.35	6.59	+2.02	3.12	−1.52	2.93	−0.63	2.39	−0.50	1.39	−1.33	2.18	−1.23	45.59	+1.65
Richmond	6.35	+1.94	9.55	+6.37	5.60	+1.21	5.25	+1.66	1.39	−2.45	12.90	+8.82	5.63	+1.61	3.33	−0.63	1.55	−1.40	2.05	−0.92	1.10	−2.19	1.65	−2.57	56.05	+11.15
Valley View, Lock No. 9	6.13	+1.53	7.54	+4.57	4.48	−0.08	6.11	+2.83	0.63	−3.38	6.59	+1.89	9.92	+5.88	3.04	−0.96	1.72	−1.69	1.88	−1.12	1.04	−2.41	2.48	−1.48	52.06	+5.58
Vanceburg, Dam No 32	3.71	−0.41	6.83	+3.40	6.88	+2.24	8.43	+4.69	2.56	−1.27	6.05	+2.08	4.35	−0.37	2.57	−0.91	3.56	+0.92	2.22	−0.78	1.48	−1.40	1.58	−2.27	50.17	+5.92
Williamsburg	4.74	+0.82	11.87	+8.36	4.38	−0.27	2.77	−1.48	1.56	−2.53	3.23	−1.85	4.16	−0.58	1.32	−3.26	1.11	−2.41	1.24	−1.60	0.91	−2.44	2.66	−1.43	39.95	−8.67
Willow, Lock No. 13	6.14	+2.44	11.45	+8.57	5.51	+1.21	4.76	+1.99	1.09	−2.71	6.57	+2.22	4.86	+0.04	2.42	−1.34	2.34	−0.72	2.01	−1.01	1.02	−2.36	2.80	−1.70	50.34	+6.45
Winchester	5.86	.....	8.74	.....	4.88	.....	5.24	.....	2.07	.....	8.77	.....	5.61	.....	2.53	.....	1.06	.....	2.65	.....	0.90	.....	1.97	.....	50.28	.....

The departures from normal precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. T. Precipitation is less than 0.01 inch rain or melted snow.

†Rumsey Brownsville and Woodbury are Locks on the Green River; other Locks are on the Kentucky River.

Monthly and Annual Mean Temperatures for the Year 1939, with Departures from the Normal.

Stations.	January.		Febrnary.		March.		April.		May.		Jnne.		July.		Angust.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
WESTERN DIVISION.																										
Beaver Dam	°41.8	+ 6.5	39.4	+ 3.2	50.4	+ 2.8	54.8	— 1.1	66.8	+ 0.5	75.6	+ 1.4	a77.8	0.0	76.0	— 0.4	75.4	+ 4.5	a61.2	+ 2.5	.....	.....	a38.4	+ 1.3	.....	.....
Calhoun	39.4	+ 2.3	40.4	+ 1.3	52.2	+ 3.8	58.4	0.0	65.3	— 1.3	76.8	+ 1.7	78.4	0.0	.....	.....	76.4	+ 4.6	62.8	+ 2.9	44.1	— 4.2	a39.4	+ 0.4	.....	.....
Earlington	42.6	+ 6.4	40.0	+ 2.2	51.9	+ 4.5	56.6	— 1.2	63.6	+ 1.6	77.2	+ 1.4	80.0	+ 1.1	77.2	0.0	76.5	+ 4.9	63.3	+ 1.7	45.2	— 2.8	40.8	+ 1.9	58.7	+ 0.7
Greenville	40.7	+ 3.7	39.0	— 1.0	49.9	+ 2.6	53.0	— 4.3	65.9	+ 0.7	74.3	— 0.2	77.6	— 0.4	75.6	— 0.5	75.4	+ 4.3	61.9	+ 2.6	43.9	— 3.9	39.8	+ 0.6	58.1	+ 0.4
Henderson	40.5	.....	37.2	.....	50.0	.....	53.4	.....	66.6	.....	74.8	.....	78.1	.....	75.8	.....	75.4	.....	62.2	.....	44.6	.....	38.6	.....	58.2	.....
Hopkinsville	41.0	+ 3.1	41.5	+ 2.3	51.0	+ 2.2	55.0	— 2.6	66.8	— 0.4	76.4	+ 1.0	78.8	— 0.3	76.8	— 1.1	76.4	+ 4.2	61.8	+ 1.0	44.6	— 3.9	a40.2	+ 1.2	59.2	+ 0.6
Lovelaceville	41.3	+ 6.9	39.0	— 1.3	50.9	+ 2.0	56.0	— 1.9	67.9	+ 0.9	75.4	— 0.1	78.5	— 1.3	76.2	.....	75.7	+ 4.7	61.6	+ 1.6	44.0	— 3.5	39.8	+ 0.6	60.0	+ 2.3
Mayfield	42.6	+ 5.3	40.0	0.0	51.4	+ 1.7	55.4	— 2.9	67.0	+ 0.5	75.4	+ 0.4	79.0	+ 0.1	b78.0	+ 0.5	b78.0	+ 5.8	64.6	+ 4.1	46.6	— 2.5	42.2	+ 1.8	60.0	+ 1.2
Murray	42.1	+ 3.9	41.2	+ 0.6	52.2	+ 3.6	a56.4	— 1.1	.....	.....	.....	.....	.....	.....	78.0	+ 0.4	78.1	+ 6.4	63.8	+ 3.8	45.2	— 2.9	41.7	+ 2.9	.....	.....
Owensboro	38.9	+ 3.7	37.2	+ 0.7	48.4	+ 1.9	52.8	— 2.9	66.8	+ 1.4	74.6	+ 0.5	77.4	— 0.4	74.4	— 1.5	73.2	+ 2.8	60.6	+ 1.9	42.8	— 4.2	36.8	— 0.4	57.0	+ 0.3
Paducah	a40.6	+ 3.2	a37.4	+ 1.4	50.4	+ 0.6	55.3	— 3.2	69.2	— 0.5	77.8	— 0.1	80.8	— 0.5	78.9	— 1.7	78.4	+ 4.0	63.2	+ 1.9	44.5	— 4.6	38.9	— 0.1	59.6	0.0
Paducah, near	°42.6	+ 5.7	39.6	— 2.0	52.2	+ 3.8	56.3	— 2.9	67.8	+ 1.5	76.2	+ 0.1	.....	.....	77.8	— 0.5	77.4	— 4.4	.....	.....	45.6	— 3.0	41.2	+ 1.6	.....	.....
Princeton	42.0	+ 5.8	39.4	+ 1.6	51.7	+ 4.0	.....	.....	.....	.....	76.8	+ 1.5	79.8	+ 1.2	78.1	+ 0.8	77.8	+ 6.0	63.8	+ 4.6	45.7	— 1.6	41.0	+ 2.3	.....	.....
Russellville	38.2	+ 2.1	38.0	— 0.3	a46.6	— 0.5	a51.6	— 5.8	°62.6	— 3.1	73.0	— 1.6	76.0	— 2.2	72.7	— 4.3	73.4	+ 1.5	.....	.....	41.4	— 5.6	36.4	— 2.4	.....	.....
CENTRAL DIVISION.																										
Anchorage	38.4	+ 4.9	38.2	+ 3.7	47.2	+ 2.8	51.1	— 2.7	64.1	+ 0.7	73.6	+ 1.5	75.4	— 1.9	73.8	— 0.7	73.2	+ 4.2	59.8	+ 3.1	41.4	— 3.4	36.6	+ 1.7	56.0	+ 1.2
Bowling Green	a43.1	+ 5.6	43.2	+ 4.2	52.1	+ 3.7	57.0	— 1.5	69.0	+ 1.5	77.1	+ 1.1	75.4	— 3.9	78.4	+ 0.2	78.3	+ 5.9	63.2	+ 3.3	46.2	— 1.7	40.9	+ 1.9	60.6	+ 2.0
Danville	40.4	.....	42.0	.....	49.5	.....	53.6	.....	65.8	.....	74.1	.....	75.2	.....	72.4	.....	73.9	.....	61.6	.....	43.8	.....	39.4	.....	57.6	.....
Dix Dam	40.8	+ 3.2	41.6	+ 1.3	49.8	.....	.....	.....	67.4	+ 2.5	76.5	+ 2.6	77.6	— 0.2	76.0	— 0.6	75.4	+ 3.5	61.8	+ 3.0	a44.6	— 3.0	40.0	0.0	.....	.....
Enbank	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.0	+ 1.0	.....	.....
Frankfort	39.2	+ 2.9	39.7	+ 2.9	48.5	+ 2.4	52.8	— 2.9	66.4	+ 1.2	75.4	+ 1.7	76.8	— 0.4	75.1	— 0.1	73.9	+ 4.4	60.4	+ 3.0	43.2	— 3.4	38.2	+ 1.3	57.5	+ 1.2
Glasgow	41.2	+ 1.2	a44.5	+ 2.9	50.4	+ 3.2	53.4	— 4.3	67.0	+ 1.2	76.1	+ 2.0	a77.9	— 0.8	76.2	— 0.8	75.5	+ 2.6	62.8	+ 4.2	44.2	— 4.3	40.4	.....	59.1	.....
Greensburg	39.7	+ 4.2	41.9	+ 5.6	49.6	+ 3.5	53.2	— 2.3	65.4	+ 0.9	74.6	+ 1.4	76.4	— 0.2	75.3	+ 0.1	73.3	+ 3.5	59.8	+ 2.7	41.6	— 4.1	38.0	+ 0.7	57.4	+ 1.3
Irvington	41.0	+ 4.8	39.8	+ 3.1	49.6	+ 2.8	54.5	— 1.7	67.2	+ 1.2	75.6	+ 1.9	.....	.....	.....	.....	73.6	+ 5.0	61.0	+ 3.8	44.8	— 2.2	39.0	+ 1.7	.....	.....
Leitchfied	40.9	+ 5.2	40.1	+ 3.5	49.6	+ 3.0	54.0	— 1.9	66.7	+ 1.4	75.0	+ 1.7	77.0	— 0.1	76.2	+ 0.6	76.3	+ 6.1	61.9	+ 3.4	43.8	— 3.0	39.4	+ 2.2	58.4	+ 1.9
Lexington	38.0	+ 5.1	39.8	+ 3.9	47.2	+ 3.5	52.0	— 2.8	66.6	+ 2.3	74.8	+ 2.6	76.0	+ 0.1	75.0	+ 0.5	74.6	+ 6.1	59.9	+ 2.5	42.4	— 2.4	36.6	+ 0.8	56.9	+ 1.9
LOUISVILLE	40.6	+ 6.2	38.2	+ 1.0	48.6	+ 3.2	53.2	— 3.2	67.9	+ 1.3	75.8	+ 1.1	77.9	— 0.7	76.4	— 0.7	75.6	+ 5.1	61.6	+ 2.3	44.6	— 2.1	38.6	+ 1.0	58.2	+ 1.2
Bowman Field	40.2	.....	38.2	..	47.9	....	52.6	.....	66.9	.....	75.2	.....	77.2	...	75.6	.....	74.1	.....	60.0	.....	42.3	.....	37.0	.....	57.2	.....
Mammoth Cave	40.2	.....	40.5	.....	48.6	.....	53.0	..	64.9	.....	74.0	.....	75.1	.....	73.9	.....	73.4	.....	58 4	.....	40.2	.....	36.6	.....	56.6	.....
St. John	39.4	+ 5.1	40.2	+ 4.8	49.1	+ 4.1	53.3	— 1.4	65.8	+ 1.7	74.7	+ 2.2	79.2	+ 2.8	75.6	+ 0.7	75.0	+ 5.6	62.8	+ 5.1	43.2	— 2.6	36.6	+ 0.8	57.9	+ 2.4
Shelbyville	37.4	+ 3.5	37.4	+ 3.3	46.4	+ 1.8	50.8	— 3.8	64.8	+ 0.4	73.4	+ 0.1	75.3	+ 0.1	73.6	— 1.6	73.8	+ 4.2	60.0	+ 2.8	42.0	— 2.8	36.7	+ 1.0	55.0	+ 0.7
Smiths Grove	41.5	.....	42.4	.....	50.4	.....	54.1	.....	66.4	.....	75.2	.....	77.4	.....	76.2	.....	76.0	.....	61.8	.....	44.6	.....	40.0	.....	58.8	.....
Stearns	°41.2	.....	45.2	.....	49.1	.....	54.2	.....	65.3	.....	73.5	.....	75.0	.....	73.6	.....	73.9	.....	60.4	.....	43.6	.....	39.6	.....	58 9	.....
Taylorsville	.....	.....	.....	.....	.....	.....	.....	.....	66.6	+ 2.6	74.6	+ 2.0	76.4	+ 0 1	74.7	+ 0.5	71.8	+ 3.2	58.9	+ 2.6	42.0	— 3.1	37.2	+ 0 8	.....	.....
Williamstown	39.7	+ 6.5	40.6	+ 6.8	47.7	+ 4.0	53.0	— 0.5	68.2	+ 4.5	75.1	+ 2.9	75.9	— 0.3	74.9	+ 0.6	74.8	+ 5.6	60.6	+ 4.7	43.1	— 2.1	38.0	+ 3.2	57.6	+ 3.0
EASTERN DIVISION.																										
Annville	38.1	.....	39.6	.....	47.2	...	50.4	.....	64.0	.....	73.3	.....	74.2	.....	72.4	.....	70.1	.....	57.9	.....	41.2	.....	36.5	.....	55.4	.....
Ashland	38.6	+ 2.1	40.8	+ 3.1	47.4	+ 1.6	52.8	— 2.8	66.8	+ 2.5	75.2	+ 1.9	75.4	— 1.1	76.2	+ 1.4	73.3	+ 2.8	59.7	+ 1.9	45.1	— 2.0	39.8	+ 1.1	57.6	+ 1.1
Berea	40.4	+ 3.2	.....	...	48.6	+ 2.0	52.9	— 2.9	66.2	+ 1.3	b75.8	+ 2.9	.....	.....	b75.2	+ 0.5	74 2	+ 4.3	61.2	+ 2.6	43.5	— 4.0	39.2	+ 1.2	.....	.....
Cumberland	.....	.....	.....	.....	.....	.....	.....	.....	70.6	.....	74.0	.....	73.4	.....	70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Farmers	38.4	+ 2.8	41.0	+ 4.1	48.1	+ 3.1	51.3	— 3.2	64.3	+ 1.1	73.9	+ 2.6	75.2	+ 0.1	74.2	+ 0 9	71.3	+ 3.0	56.2	— 0.3	40.3	— 5.2	37.0	+ 0.1	55.9	+ 0.7
Heidelberg	40.0	.....	43.4	.....	49.4	.....	53.0	.....	66.0	.....	75 7	.....	76.2	.....	74.8	.....	72.3	.....	60.2	.....	43.3	.....	39.2	.....	57.8	.....
Maysville	38.4	+ 4.7	39.3	+ 4.2	47.0	+ 2.7	52.0	— 2.3	66.8	+ 2.3	75.6	+ 2.7	76.0	— 0.8	75.5	+ 0.3	72.8	+ 3.1	59.4	+ 2.0	42.4	— 2.8	38.9	+ 3.6	57.0	+ 1.6
Middlesboro	.....	.....	.....	.....	b50.4	+ 2.5	b56.5	— 0.2	b65.2	+ 0.5	b72.7	+ 0.3	74.8	— 0.5	b71.9	— 2.3	.....	.....	b59.0	+ 1.7	b42.1	— 4.2	39.8	+ 0.8	.....	.....
Mt. Sterling	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.0	+ 1.0	73.0	+ 4.8	.....	.....	.....	.....	37.8	+ 2.2	.....	.....
Pikeville	41.2	.....	45.6	.....	51.6	.....	55.5	.....	67.8	.....	77.2	.....	77.4	.....	75.6	.....	73.6	.....	61.4	.....	43.2	.....	b38.8	.....	59.1	.....
Pippapass	41.2	.....	.....	.....	.....	.....	.....	.....	65.4	.....	74.8	.....	73.6	.....	72.2	.....	71.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quicksand	39.0	+ 0.3	.....	.....	.....	.....	53.6	— 3.2	b65.6	+ 0.8	75.0	+ 2.9	75.8	— 0.8	74.8	+ 0.2	71.0	+ 0.8	62.1	+ 4.5	a45.6	— 1.4	.....	.....	.....	.....
Richmond	40.6	+ 5.3	41.6	+ 4.8	49.0	+ 3.4	53.6	— 2.5	67.8	+ 2.3	74.8	+ 1.3	76.4	— 0.5	76.4	+ 0.9	77.2	+ 6.1	63.3	+ 4.3	45.1	— 2.1	39.2	+ 1.0	58.7	+ 2.0
Wiliamsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.4	— 0.8	75.2	— 0.9	72.3	+ 1.5	61.0	+ 1.5	44.2	— 3.4	41.0	+0.3	.....	.....
Winchester	38.7	.....	40.5	.....	47 6	.....	52.2	.....	65.6	.....	74.1	.....	75.0	.....	73 9	.....	73.8	.....	60.2	.....	42 8	.....	37.6	.....	56.8	.....

All temperatnre data are taken from self-registering thermometers.

The departures from normal temperatnre are computed only for such stations as have ten or more years of record, but all complete reports are nsed in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

KILLING FROSTS, 1939.

STATIONS	Last in Spring.	First in Autumn.	STATIONS.	Last in Spring.	First in Autnmn
WESTERN DIVISION					
Earlington	April 13	Oct. 15	Leitchfield	April 13	Oct. 15
Greenville	do 14	do 13	Lexington	do 13	do 15
Hopkinsville	do 13	do 16	Lonisville	do 13	do 15
Lovelaceville	do 12	do 15	Mammoth Cave	do 13	do 13
Mayfield	do 12	do 15	St. John	do 14	do 16
Owensboro	do 13	do 15	Shelbyville	do 13	do 14
Princeton	do 13	do 15	Williamstown	do 13	do 15
Russellville	do 13	do 15			
CENTRAL DIVISON			EASTEN DIVISON		
Anchorage	April 13	Oct. 13	Ashland	April 14	Oct. 15
Bowling Green	do 13	do 16	Berea	do 13	do 15
Danville	do 13	do 13	Farmers	do 14	do 13
Dix Dam	do 13	do 15	Maysville	do 14	do 15
Enbank	do 13	do 13	Middlesboro	do 13	do 15
Frankfort	do 14	do 13	Mount Sterling	do 14	do 13
Greensburg	do 14	do 13	Richmond	do 13	do 15
Irvington	do 13	do 15	Williamsburg	do 13	do 16

MONTHLY SUMMARIES, 1939.

MONTH.	Temperature.				Precipitation.		Average number of days.				
	State average.	*Departure.	Highest.	Lowest.	State average.	*Departure.	With .01 or more rain.	Clear.	Partly cloudy.	Cloudy.	Average Snowfall.
January	40.4	+ 4.4	74	11	5.56	+ 0.99	11	8	5	18	2.1
February	40.3	+ 3.2	79	— 5	8.03	+ 4.59	14	9	5	14	4.0
March	49.4	+ 3.0	90	15	5.78	+ 1.06	9	14	8	9	T.
April	53.7	— 2.4	91	21	6.07	+ 2.07	13	11	8	11	0.0
May	66.3	+ 0.9	94	30	1.37	— 2.60	7	15	10	6	0.0
June	75.1	+ 1.2	97	47	6.00	+ 1.84	14	10	12	8	0.0
July	76.5	— 0.6	102	50	4.83	+ 0.64	9	15	11	5	0.0
August	75.3	— 0.5	98	43	2.88	— 0.82	8	16	10	5	0.0
September	74.5	+ 3.9	105	39	1.26	— 1.67	3	21	5	4	0.0
October	60.9	+ 2.7	95	23	2.09	— 0.61	6	20	6	5	0.0
November	43.6	— 2.8	79	14	1.16	— 2.23	6	13	5	12	T.
December	38.8	+ 1.1	72	— 2	2.32	— 1.54	7	13	6	12	6.6
Annnal means and extremes	57.9	+ 1.2	105	— 5	47.35	+ 1.72	107	165	91	109	12.7

*Compared with 51 years' normal.

NOTE—Tables and charts giving climatic data for Kentucky in detail during 1935 have been pnblished for each month at the Kentnecky section center, Weather Bnrean Office, Lonisville, Ky., and can be obtained from the Official in Charge at that office. Indexes to special articles published during past years in Kentnacky climatological reports will be found in the Monthly Report for June, 1909.

W B O Lonisville, 2-24-40-1250.

UNIVERSITY OF ILLINOIS-URBANA
3 0112 084236741